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FINAL MODIFICATION TO EXISTING SOIL VAPOR EXTRACTION CONTAINMENT SYSTEM  
NWIRP BETHPAGE NY  
9/1/2011  
TETRA TECH

**MODIFICATION TO EXISTING  
SOIL VAPOR EXTRACTION CONTAINMENT  
SYSTEM AT SITE 1 – FORMER DRUM  
MARSHALLING AREA  
INSTALLATION OF SOIL VAPOR EXTRACTION  
WELLS SVE-107D to -111D**

**NWIRP BETHPAGE**  
Bethpage, New York



**Naval Facilities Engineering Command  
Mid-Atlantic**

**Contract No. N62470-08-D-1001  
Contract Task Order WE06**

**SEPTEMBER 2011**

**MODIFICATION TO EXISTING  
SOIL VAPOR EXTRACTION CONTAINMENT SYSTEM**

**NAVAL FACILITIES ENGINEERING COMMAND  
MID-ATLANTIC**

**COMPREHENSIVE LONG-TERM  
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT**

**Submitted to:  
Naval Facilities Engineering Command  
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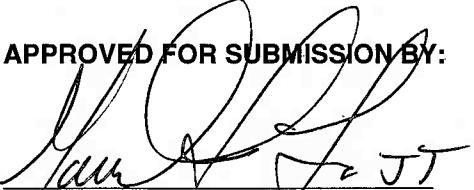
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**SEPTEMBER 2011**

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## ACRONYMS

AGC	Annual Guideline Concentration
AS/SVE	Air Sparging/Soil Vapor Extraction
BGS	below ground surface
CFM	cubic feet per minute
CLEAN	Comprehensive Long-Term Environmental Action Navy
CTO	Contract Task Order
GAC	Granular Activated Carbon
IR	Installation Restoration
NWIRP	Naval Weapons Industrial Reserve Plant
NYSDOH	New York State Department of Health
PCE	tetrachloroethene
PVC	polyvinyl chloride
SVE	Soil Vapor Extraction
TCA	1,1,1-trichloroethane
TCE	trichloroethene
Tetra Tech	Tetra Tech NUS, Inc.
VOC	volatile organic compound
µg/m <sup>3</sup>	micrograms per cubic meter

## **1.0 INTRODUCTION**

Tetra Tech NUS Inc. (Tetra Tech) under Contract Task Order (CTO) WE06 prepared this report for Naval Facilities Engineering Command Mid-Atlantic under the Comprehensive Long-Term Environmental Action Navy (CLEAN) contract number N62470-08-D-1001. This report presents proposed additions to the existing Soil Vapor Extraction (SVE) Containment System at Site 1 – Former Drum Marshalling Area at the Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage, Long Island, New York (Figures 1 and 2).

The existing SVE Containment System has achieved its primary goals of preventing migration of volatile organic compounds (VOCs) from Site 1 to offsite areas and purging VOCs from the offsite areas (Tetra Tech NUS, 2011). In addition, this system is anticipated to operate for several years until the residual VOCs at Site 1 have been addressed. To achieve these goals, approximately 400 to 500 cubic feet per minute (CFM) of vapors are extracted from the existing SVE wells along the Site 1 eastern fence line versus the design capacity of the existing blower of 600 CFM (Section 2.0). As such, the extraction system has extra capacity that can be used to purge other contaminated vapors at the facility. An in-line standby blower is also present.

The proposed modifications presented in this report consist of five new SVE wells (SVE-107D to -111D) to be installed along the existing collection header running from Site 1 to Site 4 (Section 3.0). These extraction wells will facilitate the removal of residual contaminated soil vapor at Site 1, the southern portion of Plant No. 3, and the northern portion of the South Warehouses that may result in future off site migration of VOCs. Because of the relatively impermeable nature of the ground surface in these areas (buildings and pavement), in the long term, the capture zones of the proposed wells will also affect areas further north and south. These wells will operate at a reduced rate (approximately 20 CFM each) so as to not interfere with the operation of the existing wells.

The requirements of the existing vapor phase treatment and discharge goals are also re-evaluated in this report. As presented in Section 4.0, monitoring data has shown that the concentration of VOCs from the existing containment wells have decreased significantly since start up of the system in December 2009, and that vapor phase treatment may no longer be required. However, because new contaminated vapors will be introduced into the system, off gas treatment requirements need to be re-evaluated. The current off gas discharge goals are based on reducing VOCs by 80 to 90 percent using vapor phase granular activated carbon (GAC). The Navy is currently proposing new discharge goals based on the DAR-1 analysis.

## **1.1 BACKGROUND**

Site 1 was impacted by the historic releases of chlorinated solvents and was originally remediated via an air sparging/soil vapor extraction (AS/SVE) system between 1998 and 2002, [Foster Wheeler Environmental Corporation (FWEC, 2003)]. Remedial goals were based on protection of groundwater and minimization of solvent emissions during a planned subsequent soil removal action.

Soil gas testing conducted in January 2008 indicated elevated concentrations of VOCs existing along the eastern boundary (fence line) of Site 1 that could affect the adjacent residential neighborhood (Tetra Tech, 2008). Based on offsite testing conducted in 2009, residential mitigation measures were implemented while an onsite remediation system was being designed and constructed. System start up began in December 2009 and the SVE Containment System is currently in operation at Site 1.

Based on testing conducted in November 2010 and February 2011, the SVE Containment System has effectively purged VOCs from the offsite soil gas east of Plant 3. In addition, data collected during the February 2011 sampling event and further evaluated in June 2011 confirmed that an adequate vacuum field has been established underneath the affected residents including the area between 10<sup>th</sup> Street, 11<sup>th</sup> Street, Maple Avenue, and Sycamore Avenues (Tetra Tech, 2011 and Appendix A). As a separate activity, additional monitoring points are being added to supplement the existing offsite monitoring program.

During the February and June 2011 vacuum field evaluations, the soil vapor extraction rates were measured to be approximately 315 to 400 CFM and 470 CFM, respectively. Appendix A also contains monthly flow rate data for the SVE Containment System. The system flow rates vary based on the moisture content of the soil, condensation in the piping, and permeability of the ground surface (i.e., frozen ground has a lower permeability than unfrozen ground). Based on the design, a single operating blower has a rated capacity of 600 CFM, and if both blowers are operating, the rated system capacity is 1,000 CFM. Therefore, the existing extraction system can handle an additional 130 to 200 CFM of flow, without affecting the extraction rates in the existing wells. The second blower will be maintained as an inline spare.

This additional capacity can be used to help reduce the remaining source of VOCs that could migrate off site in the future. Elevated VOC concentrations remain in soil gas in the southern and western portion of Site 1 and beneath Plant 3 and the South Warehouses. Tetrachloroethene (PCE) and trichloroethene (TCE) were also detected at concentrations that could continue to impact groundwater. In addition, treatment of these vapors would have the added benefit of reducing vapor intrusion concerns if these buildings are occupied. Recent soil gas data for Site 1 are not available. Sample results from the

September 2009 sampling event for Plant 3 and the South Warehouses are presented in Appendix B. Sample results from points taken along the southeast edge of Plant 3, within the closest proximity to the current SVE Containment System indicated some of the higher concentrations detected. The collection header for the SVE Containment System runs past the southeast corner of Plant 3. The results are summarized as follows.

VOCs ( $\mu\text{g}/\text{m}^3$ )	NYSDOH SUB SLAB Guideline Values ( $\mu\text{g}/\text{m}^3$ )	Plant 3 <sup>(1)</sup>			South Warehouses <sup>(2)</sup>		
		Mean	Maximum	Location of Maximum Detection	Mean	Range	Location of Maximum Detection
TCE	250 <sup>(3)</sup>	733	3,180	34	14.5	51.2	7
PCE	1,000 <sup>(3)</sup>	2,479	9,660	35	74.7	286	7

<sup>(1)</sup> = Locations used to calculate mean concentration consist of Plant 3 soil gas locations 30, 31, 32, 34, 35, 43, 44, 45, and 46 (see Appendix B).

<sup>(2)</sup> = Locations used to calculate mean concentration consist of South Warehouses soil gas locations 1, 4, 5, 6, 7, 8, 9, and 12 (see Appendix B).

VOCs = volatile organic compounds.

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter.

<sup>(3)</sup> = Value derived from New York State Department of Health (NYSDOH) guidance (2006), Table 3.3 (Matrix 1 and 2).

TCE and PCE concentrations were generally higher under Plant 3 than under the South Warehouses. The mean and maximum concentrations for TCE in the southern portion of Plant 3 and near the existing SVE Containment System were approximately 730 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) and 3,180  $\mu\text{g}/\text{m}^3$ , respectively, which are above the NYSDOH action level for TCE in soil gas, at 250  $\mu\text{g}/\text{m}^3$ . These concentrations are less than the TCE concentration in the SVE Containment System during startup (untreated – 42,000  $\mu\text{g}/\text{m}^3$  in December 2009), but are greater than the TCE concentration in the more recent samples (untreated – 460  $\mu\text{g}/\text{m}^3$  in March 2011).

The mean and maximum concentrations for PCE in the southern portion of Plant 3 and near the existing SVE Containment System were approximately 2,500  $\mu\text{g}/\text{m}^3$  and 9,700  $\mu\text{g}/\text{m}^3$ , respectively, which are above the action level for PCE in soil gas, at 1,000  $\mu\text{g}/\text{m}^3$ . These concentrations are less than or similar to the PCE concentration in the SVE Containment System during startup (untreated - 7,900  $\mu\text{g}/\text{m}^3$  in December 2009), but are greater than the PCE concentration in the more recent samples (untreated – 440  $\mu\text{g}/\text{m}^3$  in March 2011).

## 1.2 OBJECTIVE

The objective of this project is to implement a low rate purge of contaminated soil vapor from the southern portion of Site 1 and beneath Plant 3 and the South Warehouses, utilizing the excess capacity of the Site 1 SVE Containment System. The existing SVE Containment System addresses VOC contamination east

of Installation Restoration (IR) Program Site 1 – Former Drum Marshalling Area. The existing air discharge treatment goals will also be re-evaluated.

### **1.3 REPORT FORMAT**

This report is divided into four sections. Section 1.0 is this introduction. A description of the existing system capacity is presented in Section 2.0. Proposed well construction details are provided in Section 3.0. Section 4.0 presents proposed air discharge goals.

## **2.0 EXISTING SVE CONTAINMENT SYSTEM DESCRIPTION**

The existing SVE Containment System consists of SVE wells, flow control valves, conveyance piping, a condensate tank, two blowers, and vapor phase GAC treatment. Six SVE well clusters are located along the eastern edge of Site 1, with each cluster consisting of an intermediate-depth and deep well (twelve wells total). The wells are 2-inch diameter, schedule 40, polyvinyl chloride (PVC) risers with 0.020-inch high capacity machine slotted screens. The intermediate-depth wells are screened at a depth of 25 to 35 feet and the deep wells are screened at a depth of 40 to 60 feet. The water table is approximately 50 feet below ground surface (BGS). Figure 3 depicts the aerial view of the existing SVE Containment System. Flow from each well is directed south to the Flow Monitoring Station where control values and pressure monitors are present, and ports are available for measuring the flow rate. The individual flows are combined in a common collection header at the Flow Monitoring Station and are then directed to the Treatment Building.

The current design capacity of the SVE Containment System is 600 CFM with one blower operating and 1,000 CFM with two blowers operating. The blowers are located in the Treatment Building at Site 4. Currently, one blower normally operates and the second blower is used as an in-line spare. The system flow rates vary seasonally based on the condition of the soils and ground surface and operate at approximately 315 to 400 CFM in the winter and 450 to 500 CFM in the summer. These flow rates have been determined to be adequate to purge contaminated soil vapors offsite and establish a vacuum field in the affected area. Control valves for each well are used to balance individual well flow rates to provide relatively uniform capture along the property line.

A cross section of the existing 10-inch collection header from the Flow Monitoring Station to the Treatment Building is provided in Figure 4. Figure 4 also shows trap and cleanout numbers 1 through 5, which were part of the existing piping system for condensate removal from low points in the header. Figure 5 shows a detail of the existing trap and cleanouts. The trap-inverts range in depth from approximately 4.5 to 7 feet BGS and are dependent on the depth of the collection header relative to ground surface. See the table below for specific depths.

Trap and Cleanout	Trap-Invert Depth (feet BGS)
1	6
2	5.4
3	6.9
4	6.3
5	4.6

The collection header is buried approximately 3 feet BGS to prevent freezing. However, there are several low spots in the piping that allow moisture to collect. For example, there is a retaining wall that has since been buried located between trap and cleanouts 2 and 3. The piping system was routed around this obstruction and additional soil was mounded above this portion of the piping to add ground cover.

Between January and March 2011, 1,580 gallons of water were removed from the trap and cleanouts located along the 10-inch header. This moisture is suspected to be from precipitation infiltration captured by the extraction wells and/or condensate from moisture in the soil gas. Because the moisture is only observed in the winter months (January to March), condensation is likely to be the primary source of the moisture. The water was sampled in March 2011 for VOCs. PCE was detected at 3.2 µg/L and TCE was detected at 7.9 µg/L. These concentrations are similar to or less than VOC concentrations currently found in groundwater in the area. The chain of custody and complete analyte list are provided in Appendix C.

To evaluate the potential for condensate production in the existing extraction system, calculations were performed (see Appendix D). Since actual soil gas temperature measurements are not available during this time period, assumptions regarding moisture saturated vapor at 40, 50 and 60 degrees Fahrenheit were used. During winter months, the calculations assumed that the extracted soil vapor can be cooled from 50 or 60 degrees Fahrenheit near the extraction wells to approximately 40 degrees Fahrenheit over the length of the collection piping. This piping extends approximately 1,930 feet from SVE-106D (the most distant well) to the Treatment Building. The As-Built Survey of Site 1 (Appendix D, Figure D-1) shows a detailed aerial view of the SVE Containment System.

The results indicate that at a vapor flow rate of 500 CFM, saturated air cooled from 60 degrees Fahrenheit to 40 degrees Fahrenheit can produce approximately 40 gallons of condensate water per day, and saturated air cooled from 50 degrees Fahrenheit to 40 degrees Fahrenheit can produce approximately 17 gallons of condensate water per day. Over a 60-day period, approximately 1,020 to 2,400 gallons of condensate could form. These calculations are consistent with approximately 1,580 gallons of water that was removed from the collection header between February and March 2011.

### **3.0 PROPOSED MODIFICATIONS**

Five new SVE wells will be added to the existing system (SVE-107D through -111D). The wells will be located at Trap and Cleanout Nos. 1 to 5 (Figure 3). To address potential variations in the water tables, the well screens will be installed so that approximately 10 feet of screen will be located above the water table and 10 feet of screen will be below the water table. Estimated screen depths relative to ground surface are as follows.

<b>Well</b>	<b>Screen Interval (feet BGS)</b>
SVE-107D	40 to 60
SVE-108D	40 to 60
SVE-109D	35 to 55
SVE-110D	35 to 55
SVE-111D	40 to 60

Figure 4 shows the existing PVC collection header and trap and cleanout cross section view, where the new wells will be located. Figure 6 provides a typical detail for the construction of the new wells.

The new SVE wells will tie into the existing 2-inch PVC piping between the existing trap and cleanout piping and the 10 inch PVC pipe (see Figure 7). A six-inch diameter valve pit will be installed to allow access to a 2-inch brass gate control valve and will be anchored with No. 2 angular crushed stone. This valve will be used to control vapor flow from each well.

#### 4.0 PROPOSED REVISIONS TO VAPOR DISCHARGE GOALS

To determine the continued need for off gas treatment, the quality of the influent vapor stream was initially estimated based on soil gas results and compared to discharge goals. Vapor phase treatment was initially installed for the system based on projected relatively high concentrations of several chemicals including 1,1,1-trichloroethane (TCA), trichloroethene (TCE), and tetrachloroethene (PCE). Since the December 2009 startup, VOC concentrations in the extracted vapors have decreased by approximately 98.3 percent and it is uncertain as to whether vapor phase treatment is still required. Presented below are the December 2009 and March 2011 influent (untreated) VOC concentrations and loadings and current discharge goals.

Parameter	December 2009 Influent VOCs		March 2011 Influent VOCs ( $\mu\text{g}/\text{m}^3$ )		Current Discharge Goal (pound/hour) <sup>(3)</sup>
	Concentration ( $\mu\text{g}/\text{m}^3$ ) <sup>(1)</sup>	Loading (pound/ hour) <sup>(1)</sup>	Concentration ( $\mu\text{g}/\text{m}^3$ )	Loading (pound/ hour) <sup>(2)</sup>	
TCA	13,000	0.074	150	0.00023	0.13
TCE	42,000	0.26	460	0.00069	0.07
PCE	7,900	0.029	440	0.00066	0.0009

<sup>(1)</sup> Initial VOC Loading Rates are from baseline data taken in December 2009. The flow meter was not yet installed when this data was taken, so a value of 385 CFM (flow rate in January 2010) was used to estimate system loading.

<sup>(2)</sup> Calculated using a flow rate of 400 CFM.

<sup>(3)</sup> Current discharge goals were based on calculated VOC concentrations using soil gas data from the fence line investigation, a flow rate of 600 CFM, and an assumed treatment efficiency for each VOC of 80 to 90 percent. Based on this evaluation, the existing treatment is no longer required to meet discharge goals.

A DAR-1 Model Analysis was then conducted using the August 2010 influent vapor concentrations of TCA, TCE, and PCE at a flow rate of 500 CFM. The calculated results were then used to back calculate proposed discharge goals based on an allowance of 100% of the annual guideline concentrations (see Appendix E). The following table provides a summary of the proposed discharge goals.

Parameter	August 2010 Influent VOCs (370 CFM – Actual)		Percent AGC Using August 2010 Data	Proposed Discharge Goals	
	Concentration ( $\mu\text{g}/\text{m}^3$ )	Loading (pounds/ hour)		Concentration at 500 CFM ( $\mu\text{g}/\text{m}^3$ )	Loading (pounds/ hour)
TCA	868	0.0009	0.0004	None <sup>(1)</sup>	225
TCE	4,170	0.0039	19.4	11,000	0.02
PCE	5,780	0.0057	14.2	22,000	0.04

<sup>(1)</sup> Greater than 100,000  $\mu\text{g}/\text{m}^3$ .

AGC - Annual Guideline Concentration

## **REFERENCES**

ECOR Federal Services, LLC (ECOR), 2011. Quarterly Operations Report Third Quarter 2010 Soil Vapor Extraction Containment System Site 1, Former Drum Marshalling Yard. February.

Foster Wheeler Environmental Corporation (FWEC), 2003. Final Close-Out Report, Construction of a Soil Vapor Extraction/Air Sparging System. Naval Weapons Industrial Reserve Plant, Bethpage, New York. December.

Tetra Tech NUS, Inc. (Tetra Tech), 2008. Site 1 – Soil Vapor Investigation. Naval Weapons Industrial Reserve Plant, Bethpage, New York. April.

Tetra Tech NUS, Inc. (Tetra Tech), 2011. Data Summary Report and Home Investigation, Site 1 – Former Drum Marshaling Area. Naval Weapons Industrial Reserve Plant, Bethpage, New York. June.

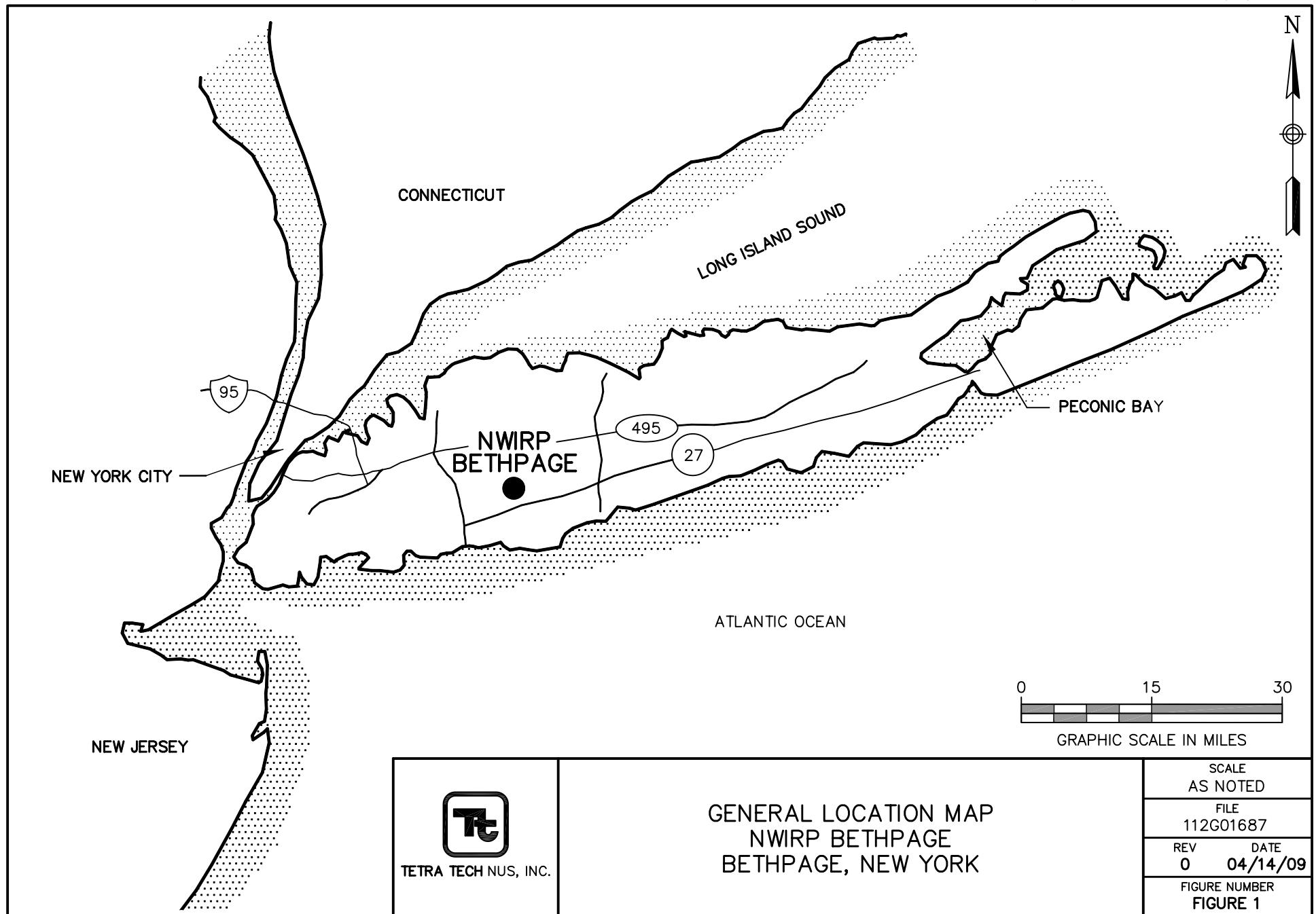
**TABLE 1**  
**INFLUENT TCE AND PCE CONCENTRATIONS**  
**SITE 1 SOIL VAPOR EXTRACTION CONTAINMENT SYSTEM**  
**NWIRP BETHPAGE, NEW YORK**

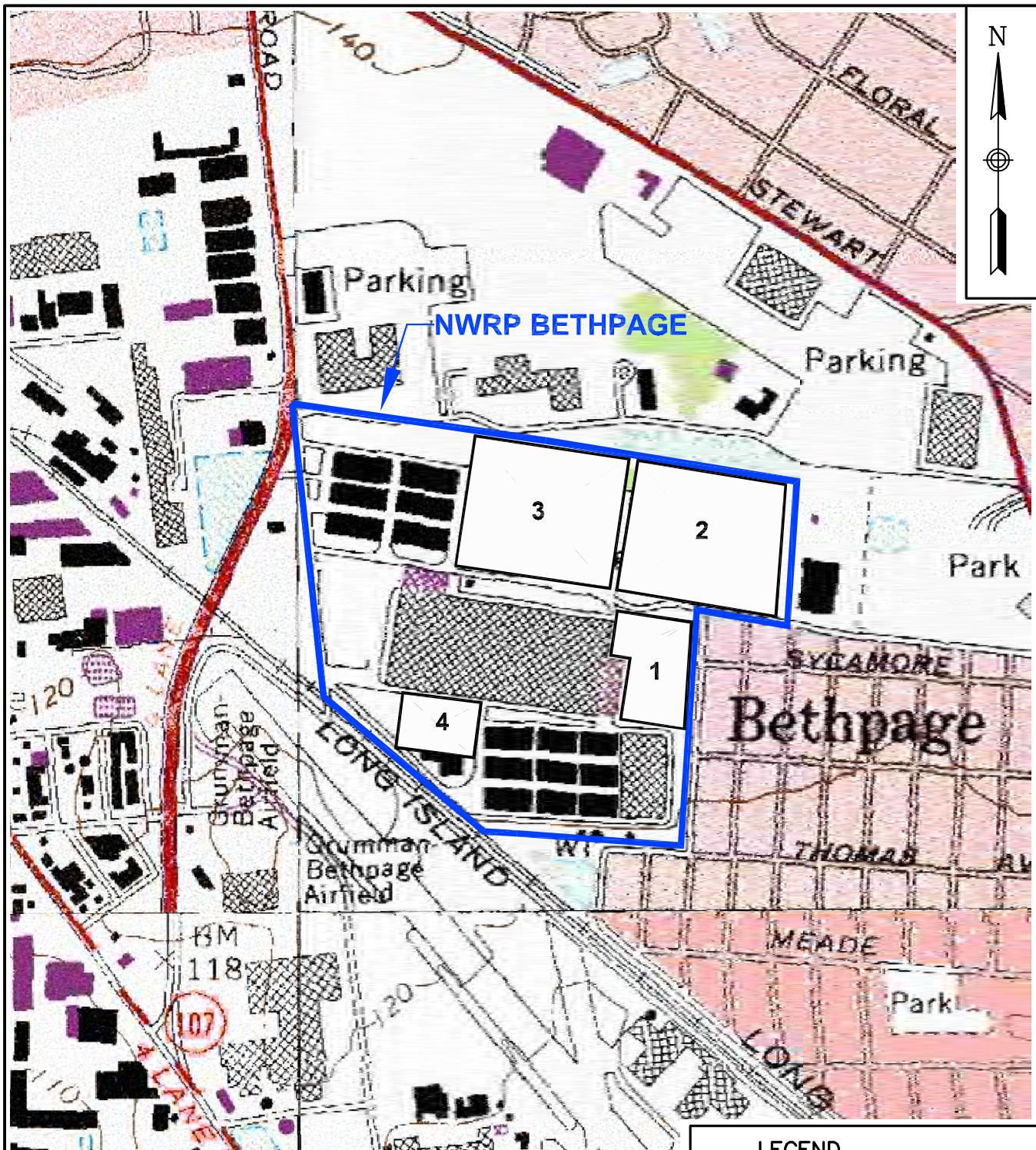
Date Influent Sampled	Trichloroethene (TCE) ( $\mu\text{g}/\text{m}^3$ )	Tetrachloroethene (PCE) ( $\mu\text{g}/\text{m}^3$ )	1,1,1-Trichloroethane (TCA) ( $\mu\text{g}/\text{m}^3$ )
December-09	42,000	7,900	13,000
January-10	7,800	4,300	190
February-10	3,500	5,700	1,100
March-10	2,000	2,300	450
April-10	1,400	1,900	280
May-10	1,800	2,700	440
June-10	2,200	3,400	400
July-10	883	1,710	231
August-10	4,170	5,780	868
September-10	780	1,200	260
January-11	630	420	180
February-11	580	860	270
March-11	460	440	150

Notes:

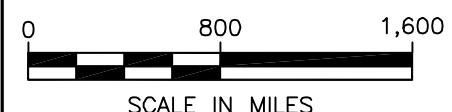
$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter

Influent concentrations reported in the Site 1 Quarterly Operations Reports and Site 1 Draft Operations Report by ECOR Federal Services, LLC (ECOR), and Tetra Tech EC respectively. Measured concentrations from December 2009 to June 2010 are a total influent concentration coming into the SVE Containment System Treatment Building. Measured concentrations from July 2010 to March 2011 are a maximum influent concentration coming into the SVE Containment System Treatment Building.



LEGEND

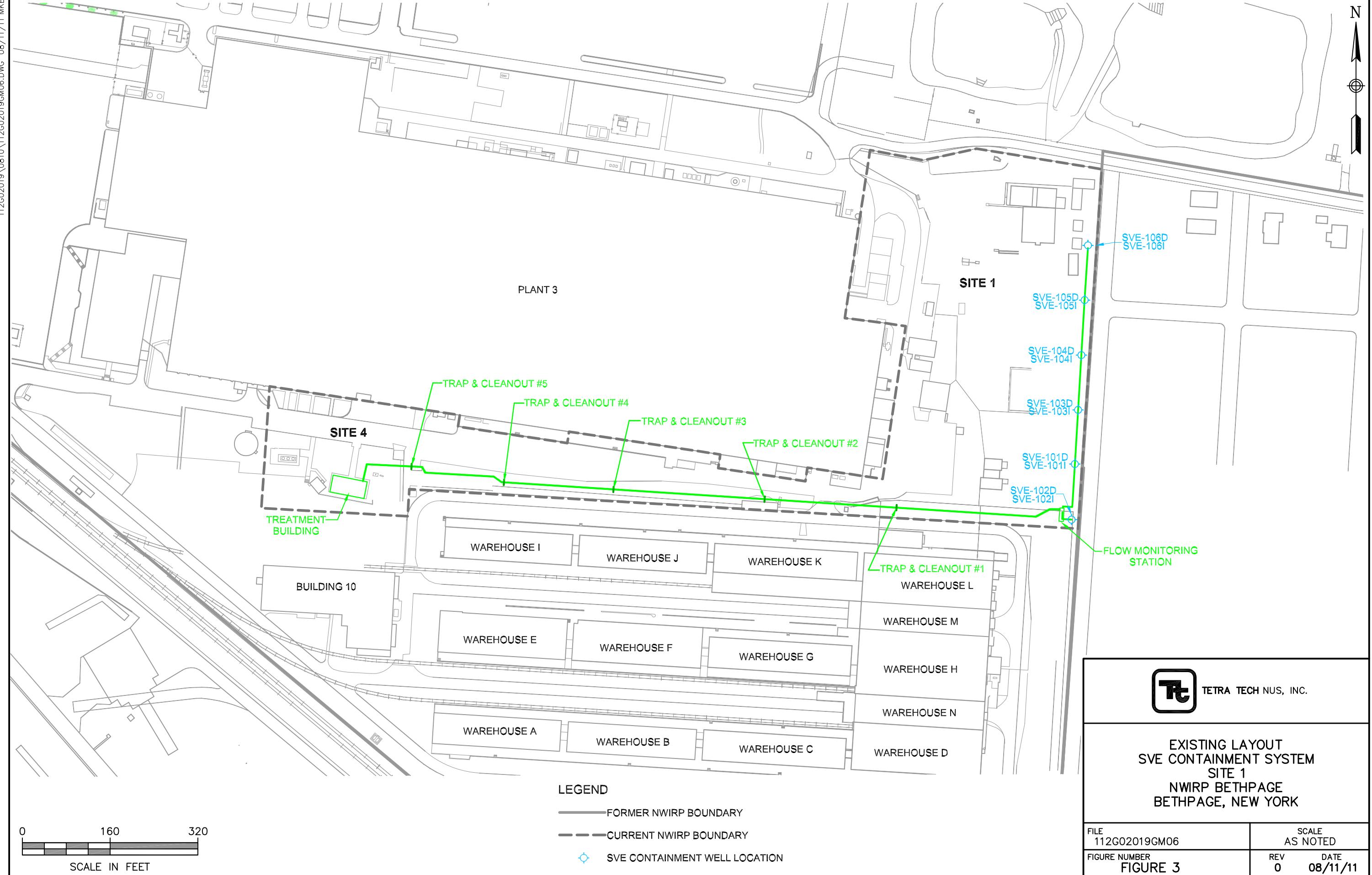
4 SITE NUMBER

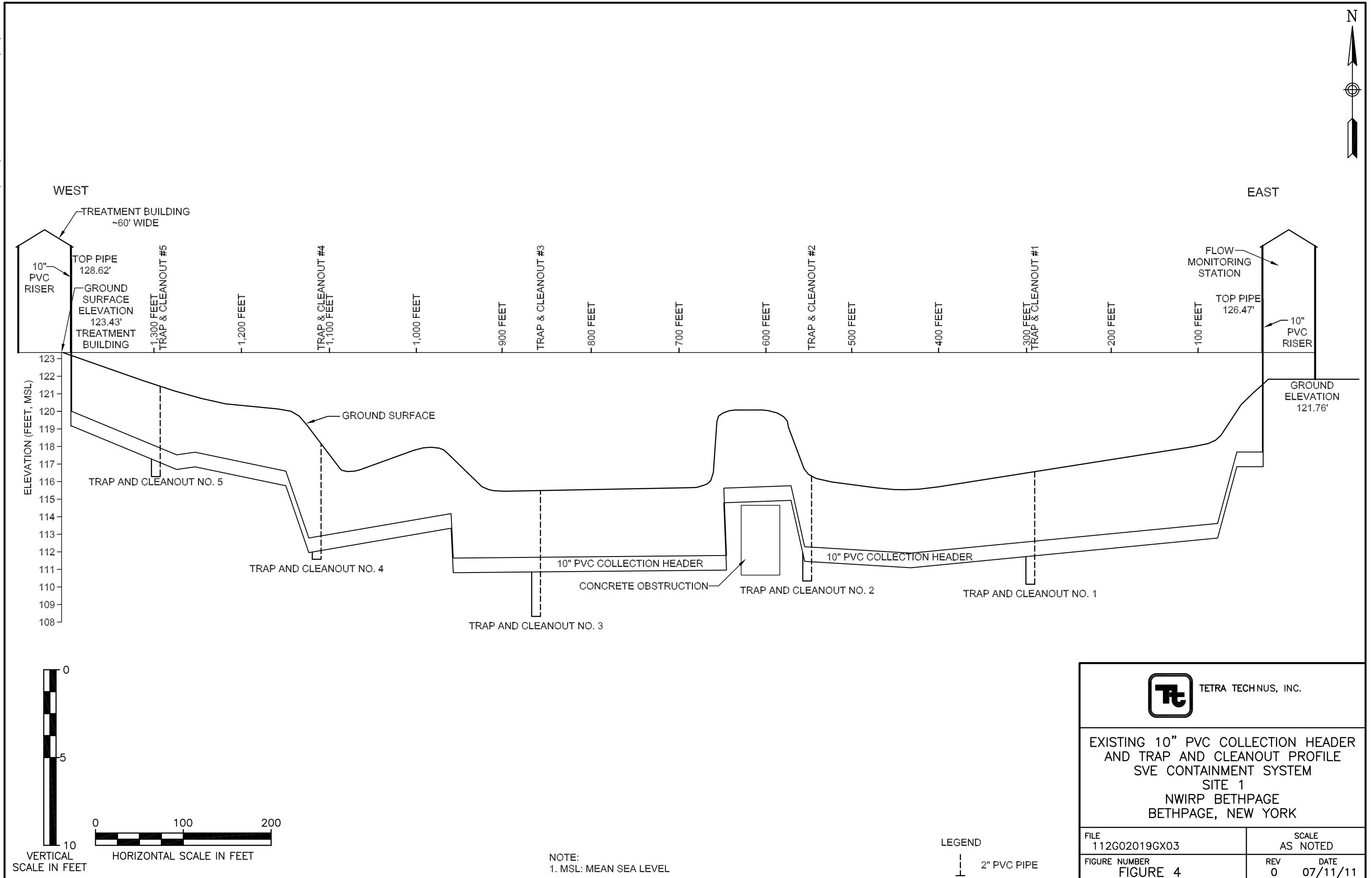


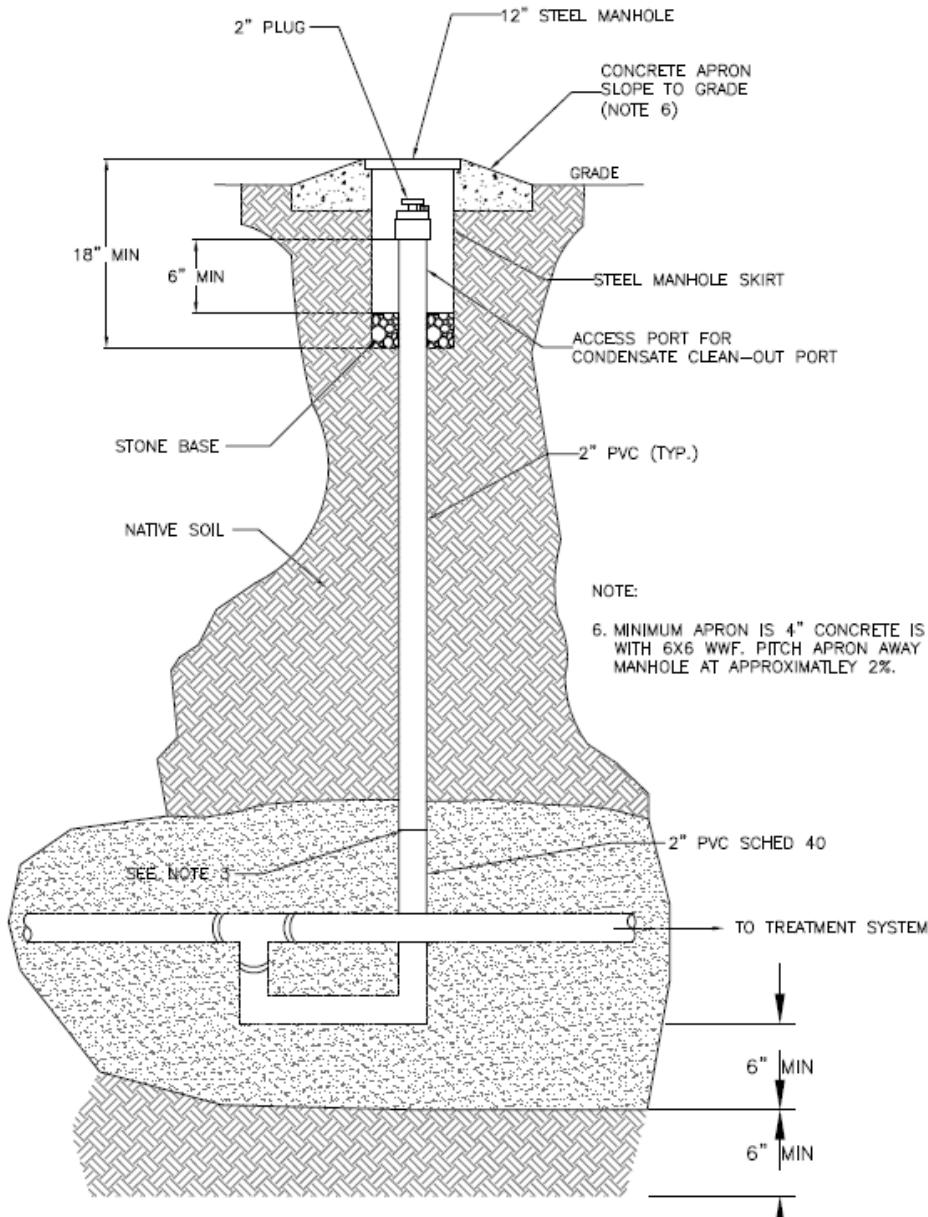
TETRA TECHNUS, INC.

SITE LOCATION MAP  
SITE 1  
NWIRP  
BETHPAGE, NEW YORK

SCALE AS NOTED
FILE 112G01687CM02
REV 0 DATE 04/14/09
FIGURE NUMBER FIGURE 2



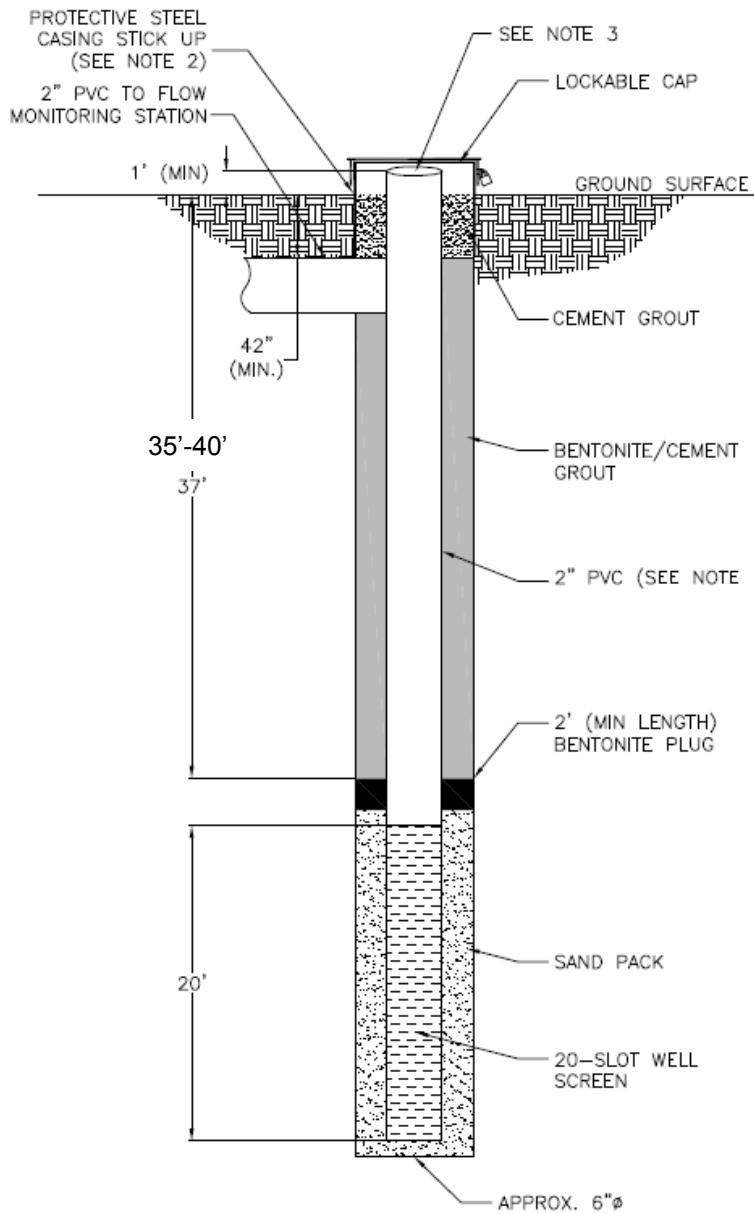




NOTES:

1. RISER PIPE TO BE 2" SCHED 40 PVC. SEE DETAIL 3 FOR CONNECTION TO TRANSFER LINE.
2. PROTECTIVE STEEL CASING TO HAVE LOCKABLE CAP.
3. WELL RISER CAP TO BE LOCKING PLUG STYLE.
4. PRESSURE MONITOR RISER TO BE 1" SCHED 40 PVC.
5. SOIL VAPOR TRANSFER PIPELINE BETWEEN MONITORING STATION AND TREATMENT BUILDING TO HAVE 0.1% SLOPE TOWARDS CONDENSATE CLEAN-OUT PORTS.
6. MINIMUM APRON IS 4" CONCRETE IS 4 KSI WITH 6X6 WWF. PITCH APRON AWAY FROM MANHOLE AT APPROXIMATELY 2%.

FIGURE 5  
EXISTING TRAP AND CLEANOUT TYPICAL DETAIL  
SITE 1 SVE CONTAINMENT SYSTEM  
NWIRP BETHPAGE, NEW YORK



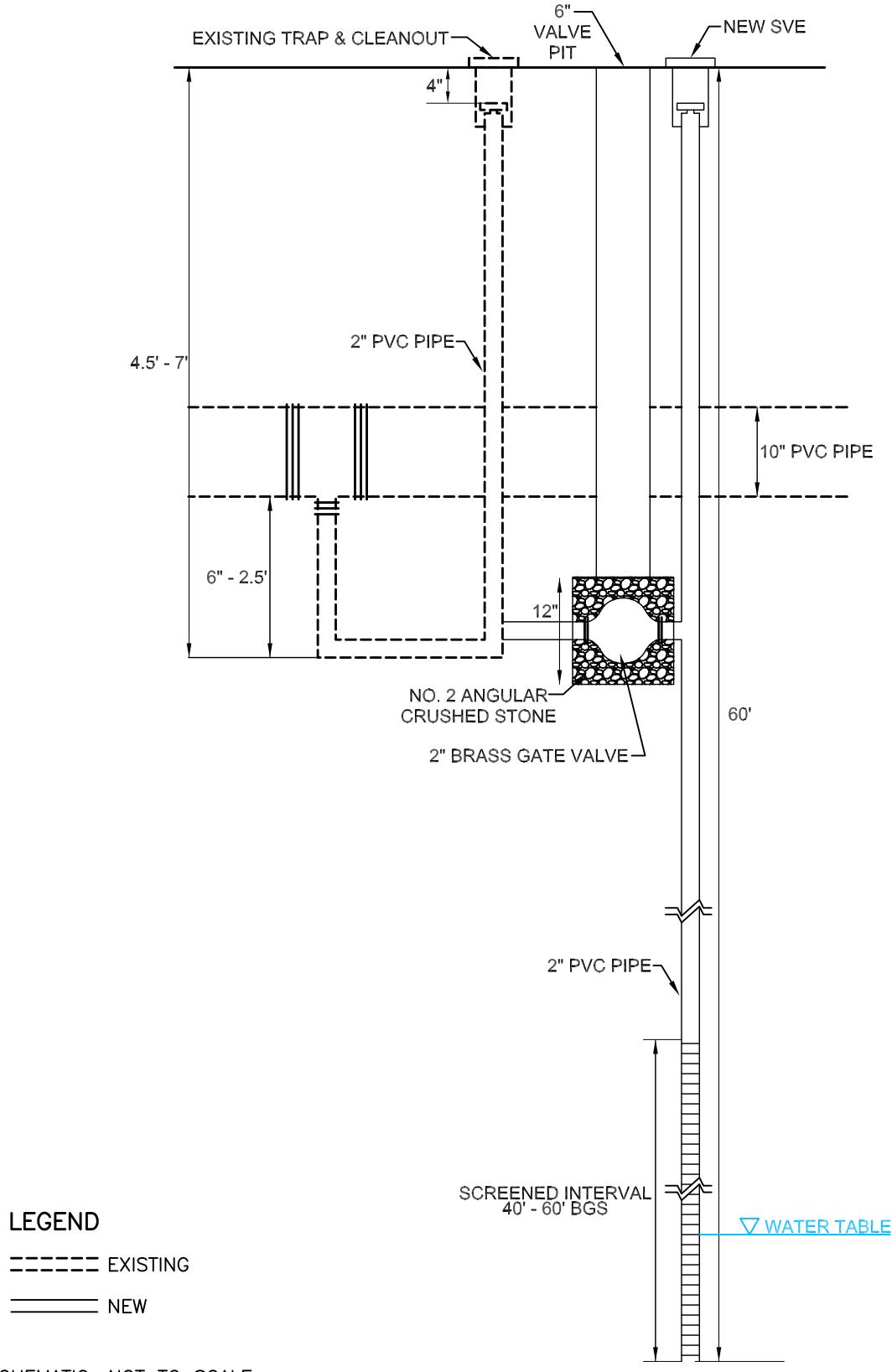
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6. MINIMUM APRON IS 4" CONCRETE IS 4 KSI WITH 6X6 WWF. PITCH APRON AWAY FROM MANHOLE AT APPROXIMATELY 2%.

Proposed Well ID	Total Depth (feet bgs)	Screen Interval (feet bgs)
SVE-107D	60'	40'-60'
SVE-108D	60'	40'-60'
SVE-109D	55'	35'-55'
SVE-110D	55'	35'-55'
SVE-111D	60'	40'-60'

Note: SVE-101D to SVE-106D are existing, SVE-107D to SVE-111D are proposed.

**FIGURE 6**  
PROPOSED AND EXISTING SOIL VAPOR EXTRACTION  
WELL DETAIL  
SITE 1 SVE CONTAINMENT SYSTEM  
NWIRP BETHPAGE, NEW YORK



PROPOSED SOIL VAPOR EXTRACTION WELL  
CONNECTION TO EXISTING  
SVE CONTAINMENT SYSTEM  
WELL DETAIL  
NWIRP BETHPAGE  
BETHPAGE, NEW YORK

SCALE AS NOTED
FILE 112G02019GX05
REV DATE 0 07/11/11
FIGURE NUMBER FIGURE 7

**APPENDIX A  
SUPPLEMENTAL INFORMATION**

**TABLE A-1**  
**SITE 1 SVE CONTAINMENT SYSTEM EVALUATION SUMMARY (JUNE 2011)**  
**NWIRP BETHPAGE, NEW YORK**

Sample ID	Distance to Closest Soil Vapor Extraction Well (feet)	June 2011 Initial Measured Vacuum Reading (inches of water column)	June 2011 Test Number 3 Deep Wells Only Measured Vacuum Reading (inches of water column)	June 2011 Test Number 4 Intermediate Wells Only Measured Vacuum Reading (inches of water column)
<u>Shallow Wells</u>				
SVPM-2002S	60	0.09	0.07	0.14
<u>Intermediate Wells</u>				
SVPM-2002I	60	0.16	0.09	0.2
SVPM-2003I	120	0.02	0.03	0.04
SVPM-2004I	100	0.06	0.06	0.06
SVPM-2007I	250	0	0	0
SVPM11S	30	0	0	0
SVPM12S	50	0	0	0
SVPM11	20	slight (+)	0	0
SVPM12	50	--	--	--
SVE-101I*	N/A	5.4/2.0	0.20/0.0	>10/7.0
SVE-102I*	N/A	8.3/6.0	0.40/0.0	>10/11.0
SVE-103I*	N/A	>10/6.0	0.50/0.0	>10/7.0
SVE-104I*	N/A	6.20/2.0	0.40/0.0	>10/6.0
SVE-105I*	N/A	6.40/2.0	0.0/0.00	>10/4.0
SVE-106I*	N/A	>10	0.4	>10
<u>Deep Wells</u>				
SVPM-2002D	60	0.19	0.16	0.21
SVPM-2003D	120	0.03	0.04	0.04
SVPM-2004D	100	0.08	0.07	0.06
SVPM-2007D	250	0.01	0.03	0.01
SVE-101D*	N/A	18.5/14.0	>30/24.0	1.50/0.0
SVE-102D*	N/A	21.5/20.0	>30/31.0	0.50/0.0
SVE-103D*	N/A	23.0/21.0	>30/33.0	1.0/0.0
SVE-104D*	N/A	25.0/1.0	>30/13.0	3.0/0.0
SVE-105D*	N/A	21.75/10.0	>30/13.0	1.0/0.0
SVE-106D*	N/A	20.5	>30	1.0

**NOTES:**

\*Vacuum readings include both the Flow Monitoring Station (FMS) and Well Head Reading (WH), respectively.

Well SVE-104D had bouncing readings and water in the piping system.

Well SVPM-2007I is malfunctioning and is scheduled for replacement.

Sarah Kinna

6-16-2011

08:34

**SITE 1 SVE CONTAINMENT SYSTEM EVALUATION (JUNE 2011)**  
**NWIRP BETHPAGE, NEW YORK**

Test No. 1: Current Conditions, measure current operating conditions

Flow Station / Well Reading

Location	Vacuum Reading (inches WC)	Flow Rate (ft/min)	Comments
Blower Inlet	26.5		Temp: can't get to
Blower Outlet	1.10	467	Temp: 108.5°F
FMS Header	24.5		Temp:
Valve Position			
50% open	SVE 101I	5.4/2.0	Record both FMS and well head vacuum
75% open	SVE-101D	18.5/14.0	Record both FMS and well head vacuum
50% open	SVE-102I	8.30/6.0	Record both FMS and well head vacuum
75% open	SVE102D	21.5/20.0	Record both FMS and well head vacuum
75% open	SVE-103I	>10/6.0	Record both FMS and well head vacuum
75% open	SVE-103D	23.0/21.0	Record both FMS and well head vacuum
25% open	SVE-104I	6.20/2.0	Record both FMS and well head vacuum
50% open	SVE-104D bouncing	25.0/1.0	Record both FMS and well head vacuum
50% open	SVE-105I	6.40/2.0	Record both FMS and well head vacuum
75% open	SVE-105D	21.75/10.0	Record both FMS and well head vacuum
75% open	SVE-106I	>10	Record both FMS and well head vacuum
50% open	SVE-106D	20.5	Record both FMS and well head vacuum
	SVPM11	Slight(+)	---
	SVPM11S	zero	---
	SVPM12	—	---
	SVPM12S	zero	---
	SVPM2002S	0.09	---
	SVPM2002I	0.16	---
	SVPM2002D	0.19	---
	SVPM2003I	0.02	---
	SVPM2003D	0.03	---
	SVPM2004I	0.06	---
	SVPM2004D	0.08	---
	SVPM-2007I	Zero	---
	SVPM-2007D	0.01	---

Temp: 57°F

Temp: 58°F

Ambient Temp.: 76.3°F Blower Outlet Temperature: 109.9°F  
 Blower Inlet: 69.7°F Flow Rate: 490.5 scFM  
 Blower Inlet Vacuum Reading: 25 i.w.c  
 Blower Outlet Vacuum Reading: 1.10 i.w.c

**SITE 1 SVE CONTAINMENT SYSTEM EVALUATION (JUNE 2011)**  
**NWIRP BETHPAGE, NEW YORK**

Sarah Kinna  
 6-16-2011  
 18:25

Test No. 2: Evaluate Individual SVE flow rates versus Pressure

Location	Vacuum Reading (inches WC)	Flow Rate (ft/min)	Comments
SVE 101I	9.2	2,500.0	Record three flows/pressures Temperature: 60.1°F
	5.0	1,600.0	
	2.2	900.0	
SVE-101D	18.0	2,200.0	Record three flows/pressures Temperature: 61.2°F
	9.5	1,300.0	
	5.0	800.0	
SVE-102I	4.40	240.0	Record three flows/pressures Temperature: 58.0°F
	2.50	1,200.0	
	1.50	600.	
SVE102D	13.50	2,000.	Record three flows/pressures Temperature: 61.1°F
	8.0	1,400.	
	4.0	300.	
SVE-103I	9.0	1,800.	Record three flows/pressures Temperature: 61.1°F
	5.0	1,300.	
	2.0	600.	
SVE-103D	18.5	1,300.	Record three flows/pressures Temperature: 62.8°F
	10.0	800.	
	5.0	500.	
SVE-104I	9.0	1,500.0	Record three flows/pressures Temperature: 62.1°F
	5.0	1,000.	
	2.2	600.	
SVE-104D	16.0	1,700.	Record three flows/pressures Temperature: 61.7°F
	9.5	1,200.	
	5.0	500.	
SVE-105I	8.0	1,500.	Record three flows/pressures Temperature: 61.9°F
	4.2	1,000.	
	2.2	600.0	
SVE-105D	18.5	1,900.0	Record three flows/pressures Temperature: 63.3°F
	10.5	1,800.0	
	5.5	1,200.0	
SVE-106I	10.0	1,400.	Record three flows/pressures Temperature: 63.6°F
	4.4	800.	
	2.2	500.	
SVE-106D	15.0	2,100.	Record three flows/pressures Temperature: 63.8°F
	8.0	1,200.	
	4.5	600.	

NOTES:

May not  
be a good  
reading.

SITE 1 SVE CONTAINMENT SYSTEM EVALUATION (JUNE 2011)  
NWIRP BETHPAGE, NEW YORK

Sarah Kining  
6-16-2011

Test No. 3: Operate Deep Extraction Wells Only

10:35, 13:18

Flow Station / Well Head

Location	Vacuum Reading (inches WC)	Flow Rate (ft/min)	Comments
Blower Inlet	38.0		Temp: can't get to
Blower Outlet	0.08	322	Temp: 114.2°F
FMS Header	10.45 40.0	38.5/36	Temp:
valve position			
3% open			Record both FMS and well head vacuum
100% open			Record both FMS and well head vacuum
5% open			Record both FMS and well head vacuum
00% open			Record both FMS and well head vacuum
0% open			Record both FMS and well head vacuum
100% open			Record both FMS and well head vacuum
3% open			Record both FMS and well head vacuum
100% open			Record both FMS and well head vacuum
0% open			Record both FMS and well head vacuum
100% open			Record both FMS and well head vacuum
3% open			Record both FMS and well head vacuum
100% open			Record both FMS and well head vacuum
0% open			Record both FMS and well head vacuum
100% open			Record both FMS and well head vacuum
SVE-101I	0.20/0.0		
SVE-101D	>30/24.0		
SVE-102I	0.40/0.0		
SVE-102D	>30/31.0		
SVE-103I	0.50/0.0		
SVE-103D	>30/33.0		
SVE-104I	0.40/0.0		
SVE-104D	has water >30/13.0		
SVE-105I	0/0.0		
SVE-105D	>30/13.0		
SVE-106I	0.40		
SVE-106D	>30		
SVPM11	zero	---	
SVPM11S	zero	---	
SVPM12	—	---	
SVPM12S	zero	---	
SVPM2002S	0.07	---	
SVPM2002I	0.09	---	
SVPM2002D	0.16	---	
SVPM2003I	0.03	---	
SVPM2003D	0.04	---	
SVPM2004I	0.06	---	
SVPM2004D	0.07	---	
SVPM-2007I	zero	---	
SVPM-2007D	0.03	---	

**SITE 1 SVE CONTAINMENT SYSTEM EVALUATION (JUNE 2011)**  
**NWIRP BETHPAGE, NEW YORK**

Test No. 4: Operate Intermediate-Depth Extraction Wells Only  
 Flow Station/ Well Head

Sarah Kinna  
 6-16-2011  
 14:47, 16:15

Valve Position

100% open

0% open

16:15  
 (time taken)

Location	Vacuum Reading (inches WC)	Flow Rate (ft/min)	Comments
Blower Inlet	31.0		Temp:
Blower Outlet	1.05	440	Temp: 112.8°F
FMS Header	26.5		Temp:
SVE 101I	>10 / 7.0		Record both FMS and well head vacuum
SVE-101D	1.50 / 0.0		Record both FMS and well head vacuum
SVE-102I	>10 / 11.0		Record both FMS and well head vacuum
SVE102D	0.50 / 0.0		Record both FMS and well head vacuum
SVE-103I	>10 / 7.0		Record both FMS and well head vacuum
SVE-103D	1.0 / 0.0		Record both FMS and well head vacuum
SVE-104I	>10 / 6.0		Record both FMS and well head vacuum
SVE-104D	3.0 / 0.0		Record both FMS and well head vacuum
SVE-105I	>10 / 4.0		Record both FMS and well head vacuum
SVE-105D	1.0 / 0.0		Record both FMS and well head vacuum
SVE-106I	>10		Record both FMS and well head vacuum
SVE-106D	1.0		Record both FMS and well head vacuum
SVPM11	Zero	---	
SVPM11S	Zero	---	
SVPM12	—	---	
SVPM12S	Zero	---	
SVPM2002S	0.14	---	
SVPM2002I	0.20	---	
SVPM2002D	0.21	---	
SVPM2003I	0.04	---	
SVPM2003D	0.06	---	
SVPM2004I	0.06	---	
SVPM2004D	0.06	---	
SVPM-2007I	Zero	---	
SVPM-2007D	0.01	---	

Table 3  
 Soil Vapor Extraction Containment System  
 Site 1, Former Drum Marshalling Yard  
 Naval Weapons Industrial Reserve Plant - Bethpage, NY  
 Vapor Monitoring Results  
 March 2011

Compound	Concentration ( $\mu\text{g}/\text{m}^3$ )			Emission Rate <sup>(1),(2)</sup>		Monthly Mass Removal <sup>(3)</sup> (lbs)
	Influent #1	Influent #2	Average	Prior to Treatment (lbs/hr)	Following Treatment (lbs/hr)	
Acetone	8	5	6.5	6.0	0.0000	0.0698
2-Butanone	2	2	2	3.0	0.0233	0.0349
Carbon Tetrachloride	3	2	2.5	0.0	0.0291	0.0000
Chloroform	2	2	2	0.0	0.0233	0.0000
1,1-Dichloroethane	18	14	16	0.0	0.1862	0.0000
1,2-Dichloroethane	0	0	0	0.0000	0.0000	0.0000
1,1-Dichloroethene	1	1	1	0.0	0.0116	0.0000
cis-1,2-Dichloroethene	120	98	109	0.0	1.2685	0.0000
trans-1,2-Dichloroethene	2	2	2	0.0	0.0233	0.0000
Freon 113	41	35	38	0.0	0.4422	0.0000
Hexane	3	3	3	1.0	0.0349	0.0116
Isopropyl Alcohol	2	2	2	2.0	0.0233	0.0233
Isopropylbenzene	11	0	5.5	0.0	0.0640	0.0000
Methylene Chloride	2	3	2.5	2.0	0.0291	0.0233
Propylene	0	0	0	0.0000	0.0000	0.0000
Tetrachloroethylene	440	360	400	0.0	4.6550	0.0000
Tetrahydrofuran	3	2	2.5	0.0	0.0291	0.0000
1,1,1-Trichloroethane	150	120	135	0.0	1.5711	0.0000
Trichloroethylene	460	380	420	0.0	4.8877	0.0000
Trichlorofluoromethane	3	2	2.5	1.0	0.0291	0.0116
Vinyl Acetate	0	0	0	0.0000	0.0000	0.0000
Total VOC's	1271	1033	1152	19	0.0015	13.4064
					0.0000	0.2211
						1.12

**Notes:**

Average Monthly Vapor Temp (°F) = 90  
 Average Monthly Flowrate (cfm) = 370  
 Average Monthly Flowrate (scfm) = 355  
 Operational Hours for the month = 744

- (1) Emissions (lbs/hr) = Concentration ( $\mu\text{g}/\text{m}^3$ ) \* (lb/4540000000 $\mu\text{g}$ ) \* (0.0283 $\text{m}^3/\text{ft}^3$ ) \* exhaust flow (scfm) \* (60min/hour)  
 (2) Emissions (lbs/yr) = Emissions (lbs/hour) \* (8760hours/yr)  
 (3) Monthly Mass Removal = AVERAGE FLOWRATE (scfm) \* 0.02832 $\text{m}^3/\text{ft}^3$  \* CONC. ( $\text{mg}/\text{m}^3$ ) \* 0.000001g/mg \* 0.002205 lbs/g \* 60 min/hr \* OPERATIONAL TIME (hours)



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## Certificate of Analysis

Project Name: **BETHPAGE-NY**

Workorder: **9861460**

Purchase Order:

Workorder ID: **Site 1 Bethpage NY**

Mr. Matt Lapp  
ECOR Solutions  
440 Creamery Way  
Suite 150  
Exton, PA 19341

August 27, 2010

Dear Mr. Lapp,

Enclosed are the analytical results for samples received by the laboratory on Friday, August 20, 2010

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Tonya Hironimus (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at [www.analyticallab.com](http://www.analyticallab.com) for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

*This page is included as part of the Analytical Report and must be retained as a permanent record thereof.*

  
**Anna G. Milliken**  
Laboratory Manager



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## SAMPLE SUMMARY

Workorder: 9861460 Site 1 Bethpage NY

Discard Date: 09/10/2010

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9861460001	SVE TI - 081910-01	Air	8/19/10 13:00	8/20/10 09:25	Customer
9861460002	SVE TI - 081910-02	Air	8/19/10 14:00	8/20/10 09:25	Customer
9861460003	SVE TE - 081910	Air	8/19/10 12:30	8/20/10 09:25	Customer

### Workorder Comments:

#### Notes

- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.

#### Standard Acronyms/Flags

J, B	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference



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## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID:	9861460001	Date Collected:	8/19/2010 13:00	Matrix:	Air
Sample ID:	SVE TI - 081910-01	Date Received:	8/20/2010 09:25		

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed By	By	Cntr
<b>VOLATILE ORGANICS @ STP</b>										
Acetone	9.1	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Acrylonitrile	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
tert-Amyl methyl ether	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Benzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Benzyl Chloride	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Bromodichloromethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Bromoform	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Bromomethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,3-Butadiene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
2-Butanone	3.1	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
tert.- Butyl Alcohol	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Carbon Disulfide	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Carbon Tetrachloride	0.24J	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Chlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Chlorodibromomethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Chloroethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Chloroform	0.98	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Chloromethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
3-Chloro-1-propene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
o-Chlorotoluene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Cyclohexane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,2-Dibromoethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,2-Dichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,3-Dichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,4-Dichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Dichlorodifluoromethane	0.44J	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,1-Dichloroethane	16.6	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,2-Dichloroethane	0.32J	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,1-Dichloroethene	0.37J	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
cis-1,2-Dichloroethene	68.0	ppbv		10.0	4.0	TO-15		8/26/10 06:37	JSS	A
trans-1,2-Dichloroethene	0.90	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,2-Dichloropropane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
cis-1,3-Dichloropropene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
trans-1,3-Dichloropropene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,3-Dichloropropene, Total	1.0 U	ppbv		1.0	0.40	TO-15		8/27/10 04:59	JSS	A
Diisopropyl ether	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
1,4-Dioxane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Ethyl Acetate	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Ethyl tert-butyl ether	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Ethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
4-Ethyltoluene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Freon 113	16.5	ppbv		10.0	4.0	TO-15		8/26/10 06:37	JSS	A
Freon-114	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Heptane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Hexachlorobutadiene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A
Hexane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 04:59	JSS	A

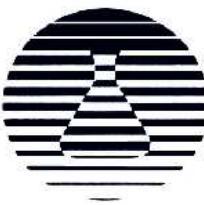


## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID: **9861460001** Date Collected: 8/19/2010 13:00 Matrix: Air  
Sample ID: **SVE TI - 081910-01** Date Received: 8/20/2010 09:25

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed By	By	Cntr
2-Hexanone	0.41J	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Isopropyl Alcohol	0.36J	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Isopropylbenzene	19.3	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
p-Isopropyltoluene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Methyl t-Butyl Ether	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
4-Methyl-2-Pentanone(MIBK)	0.23J	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Methylene Chloride	0.25J	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Naphthalene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
iso-Octane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
n-Propylbenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Propylene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Styrene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
1,1,2,2-Tetrachloroethane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Tetrachloroethene	853	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Tetrahydrofuran	10.2	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Toluene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Total Xylenes	1.5 U	ppbv		1.5	0.60	TO-15			8/27/10 04:59	JSS A
1,2,4-Trichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
1,1,1-Trichloroethane	159	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
1,1,2-Trichloroethane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Trichloroethene	776	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Trichlorofluoromethane	0.43J	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
1,2,3-Trichloropropane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
1,2,4-Trimethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
1,3,5-Trimethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
1,2,3-Trimethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Vinyl Acetate	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Vinyl Bromide	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
Vinyl Chloride	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
o-Xylene	0.24J	ppbv		0.50	0.20	TO-15			8/27/10 04:59	JSS A
mp-Xylene	1.0 U	ppbv		1.0	0.40	TO-15			8/27/10 04:59	JSS A
Acetone	21.7	ug/m3		1.2	0.48	TO-15			8/27/10 04:59	JSS A
Acrylonitrile	1.1 U	ug/m3		1.1	0.43	TO-15			8/27/10 04:59	JSS A
tert-Amyl methyl ether	2.1 U	ug/m3		2.1	0.84	TO-15			8/27/10 04:59	JSS A
Benzene	1.6 U	ug/m3		1.6	0.64	TO-15			8/27/10 04:59	JSS A
Benzyl Chloride	2.6 U	ug/m3		2.6	1.0	TO-15			8/27/10 04:59	JSS A
Bromodichloromethane	3.4 U	ug/m3		3.4	1.3	TO-15			8/27/10 04:59	JSS A
Bromoform	5.2 U	ug/m3		5.2	2.1	TO-15			8/27/10 04:59	JSS A
Bromomethane	1.9 U	ug/m3		1.9	0.78	TO-15			8/27/10 04:59	JSS A
1,3-Butadiene	1.1 U	ug/m3		1.1	0.44	TO-15			8/27/10 04:59	JSS A
2-Butanone	9.1	ug/m3		1.5	0.59	TO-15			8/27/10 04:59	JSS A
tert.- Butyl Alcohol	1.5 U	ug/m3		1.5	0.61	TO-15			8/27/10 04:59	JSS A
Carbon Disulfide	1.6 U	ug/m3		1.6	0.62	TO-15			8/27/10 04:59	JSS A
Carbon Tetrachloride	1.5J	ug/m3		3.1	1.3	TO-15			8/27/10 04:59	JSS A
Chlorobenzene	2.3 U	ug/m3		2.3	0.92	TO-15			8/27/10 04:59	JSS A
Chlorodibromomethane	4.3 U	ug/m3		4.3	1.7	TO-15			8/27/10 04:59	JSS A



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## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID: **9861460001** Date Collected: 8/19/2010 13:00 Matrix: Air  
Sample ID: **SVE TI - 081910-01** Date Received: 8/20/2010 09:25

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed By	By	Cntr
Chloroethane	1.3 U	ug/m3		1.3	0.53	TO-15		8/27/10 04:59	JSS	A
Chloroform	4.8	ug/m3		2.4	0.98	TO-15		8/27/10 04:59	JSS	A
Chloromethane	1.0 U	ug/m3		1.0	0.41	TO-15		8/27/10 04:59	JSS	A
3-Chloro-1-propene	1.6 U	ug/m3		1.6	0.63	TO-15		8/27/10 04:59	JSS	A
o-Chlorotoluene	2.6 U	ug/m3		2.6	1.0	TO-15		8/27/10 04:59	JSS	A
Cyclohexane	1.7 U	ug/m3		1.7	0.69	TO-15		8/27/10 04:59	JSS	A
1,2-Dibromoethane	3.8 U	ug/m3		3.8	1.5	TO-15		8/27/10 04:59	JSS	A
1,2-Dichlorobenzene	3.0 U	ug/m3		3.0	1.2	TO-15		8/27/10 04:59	JSS	A
1,3-Dichlorobenzene	3.0 U	ug/m3		3.0	1.2	TO-15		8/27/10 04:59	JSS	A
1,4-Dichlorobenzene	3.0 U	ug/m3		3.0	1.2	TO-15		8/27/10 04:59	JSS	A
Dichlorodifluoromethane	2.2J	ug/m3		2.5	0.99	TO-15		8/27/10 04:59	JSS	A
1,1-Dichloroethane	67.1	ug/m3		2.0	0.81	TO-15		8/27/10 04:59	JSS	A
1,2-Dichloroethane	1.3J	ug/m3		2.0	0.81	TO-15		8/27/10 04:59	JSS	A
1,1-Dichloroethene	1.5J	ug/m3		2.0	0.79	TO-15		8/27/10 04:59	JSS	A
cis-1,2-Dichloroethene	270	ug/m3		40.0	15.8	TO-15		8/26/10 06:37	JSS	A
trans-1,2-Dichloroethene	3.6	ug/m3		2.0	0.79	TO-15		8/27/10 04:59	JSS	A
1,2-Dichloropropane	2.3 U	ug/m3		2.3	0.92	TO-15		8/27/10 04:59	JSS	A
cis-1,3-Dichloropropene	2.3 U	ug/m3		2.3	0.91	TO-15		8/27/10 04:59	JSS	A
trans-1,3-Dichloropropene	2.3 U	ug/m3		2.3	0.91	TO-15		8/27/10 04:59	JSS	A
1,3-Dichloropropene, Total	4.5 U	ug/m3		4.5	1.8	TO-15		8/27/10 04:59	JSS	A
Diisopropyl ether	2.1 U	ug/m3		2.1	0.84	TO-15		8/27/10 04:59	JSS	A
1,4-Dioxane	1.8 U	ug/m3		1.8	0.72	TO-15		8/27/10 04:59	JSS	A
Ethyl Acetate	1.8 U	ug/m3		1.8	0.84	TO-15		8/27/10 04:59	JSS	A
Ethyl tert-butyl ether	2.1 U	ug/m3		2.1	0.84	TO-15		8/27/10 04:59	JSS	A
Ethylbenzene	2.2 U	ug/m3		2.2	0.87	TO-15		8/27/10 04:59	JSS	A
4-Ethyltoluene	2.5 U	ug/m3		2.5	0.98	TO-15		8/27/10 04:59	JSS	A
Freon 113	126	ug/m3		76.0	30.6	TO-15		8/26/10 06:37	JSS	A
Freon-114	3.5 U	ug/m3		3.5	1.4	TO-15		8/27/10 04:59	JSS	A
Heptane	2.0 U	ug/m3		2.0	0.82	TO-15		8/27/10 04:59	JSS	A
Hexachlorobutadiene	5.3 U	ug/m3		5.3	2.1	TO-15		8/27/10 04:59	JSS	A
Hexane	1.8 U	ug/m3		1.8	0.70	TO-15		8/27/10 04:59	JSS	A
2-Hexanone	1.7J	ug/m3		2.1	0.82	TO-15		8/27/10 04:59	JSS	A
Isopropyl Alcohol	0.88J	ug/m3		1.2	0.49	TO-15		8/27/10 04:59	JSS	A
Isopropylbenzene	94.8	ug/m3		2.5	1.0	TO-15		8/27/10 04:59	JSS	A
p-Isopropyltoluene	2.7 U	ug/m3		2.7	1.1	TO-15		8/27/10 04:59	JSS	A
Methyl t-Butyl Ether	1.8 U	ug/m3		1.8	0.72	TO-15		8/27/10 04:59	JSS	A
4-Methyl-2-Pentanone(MIBK)	0.95J	ug/m3		2.0	0.82	TO-15		8/27/10 04:59	JSS	A
Methylene Chloride	0.86J	ug/m3		1.7	0.69	TO-15		8/27/10 04:59	JSS	A
Naphthalene	2.6 U	ug/m3		2.6	1.1	TO-15		8/27/10 04:59	JSS	A
iso-Octane	2.3 U	ug/m3		2.3	0.93	TO-15		8/27/10 04:59	JSS	A
n-Propylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15		8/27/10 04:59	JSS	A
Propylene	0.86 U	ug/m3		0.86	0.34	TO-15		8/27/10 04:59	JSS	A
Styrene	2.1 U	ug/m3		2.1	0.85	TO-15		8/27/10 04:59	JSS	A
1,1,2,2-Tetrachloroethane	3.4 U	ug/m3		3.4	1.4	TO-15		8/27/10 04:59	JSS	A
Tetrachloroethene	5780	ug/m3		3.4	1.4	TO-15		8/27/10 04:59	JSS	A
Tetrahydrofuran	30.1	ug/m3		1.5	0.59	TO-15		8/27/10 04:59	JSS	A



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## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID: 9861460001 Date Collected: 8/19/2010 13:00 Matrix: Air

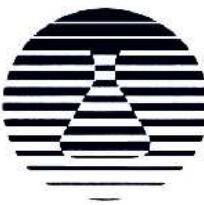
Sample ID: SVE TI - 081910-01 Date Received: 8/20/2010 09:25

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene	1.9 U	ug/m3		1.9	0.75	TO-15			8/27/10 04:59	JSS	A
Total Xylenes	6.5 U	ug/m3		6.5	2.6	TO-15			8/27/10 04:59	JSS	A
1,2,4-Trichlorobenzene	3.7 U	ug/m3		3.7	1.5	TO-15			8/27/10 04:59	JSS	A
1,1,1-Trichloroethane	868	ug/m3		2.7	1.1	TO-15			8/27/10 04:59	JSS	A
1,1,2-Trichloroethane	2.7 U	ug/m3		2.7	1.1	TO-15			8/27/10 04:59	JSS	A
Trichloroethene	4170	ug/m3		2.7	1.1	TO-15			8/27/10 04:59	JSS	A
Trichlorofluoromethane	2.4J	ug/m3		2.8	1.1	TO-15			8/27/10 04:59	JSS	A
1,2,3-Trichloropropane	3.0 U	ug/m3		3.0	1.2	TO-15			8/27/10 04:59	JSS	A
1,2,4-Trimethylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 04:59	JSS	A
1,3,5-Trimethylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 04:59	JSS	A
1,2,3-Trimethylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 04:59	JSS	A
Vinyl Acetate	1.8 U	ug/m3		1.8	0.70	TO-15			8/27/10 04:59	JSS	A
Vinyl Bromide	2.2 U	ug/m3		2.2	0.87	TO-15			8/27/10 04:59	JSS	A
Vinyl Chloride	1.3 U	ug/m3		1.3	0.51	TO-15			8/27/10 04:59	JSS	A
o-Xylene	1.0J	ug/m3		2.2	0.87	TO-15			8/27/10 04:59	JSS	A
mp-Xylenes	4.3 U	ug/m3		4.3	1.7	TO-15			8/27/10 04:59	JSS	A
Surrogate Recoveries	Results	Units	Footnotes	Limits		Method	Prepared	By	Analyzed	By	Cntr
4-Bromofluorobenzene (S)	99.9	%		70-130		TO-15			8/26/10 06:37	JSS	A
4-Bromofluorobenzene (S)	114	%		70-130		TO-15			8/27/10 04:59	JSS	A

### Sample Comments:

Anna G Milliken

Laboratory Manager



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## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID:	9861460002	Date Collected:	8/19/2010 14:00	Matrix:	Air
Sample ID:	SVE TI - 081910-02	Date Received:	8/20/2010 09:25		

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed By	By	Cntr
<b>VOLATILE ORGANICS @ STP</b>										
Acetone	2.6	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Acrylonitrile	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
tert-Amyl methyl ether	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Benzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Benzyl Chloride	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Bromodichloromethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Bromoform	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Bromomethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,3-Butadiene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
2-Butanone	2.6	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
tert.- Butyl Alcohol	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Carbon Disulfide	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Carbon Tetrachloride	0.30J	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Chlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Chlorodibromomethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Chloroethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Chloroform	1.2	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Chloromethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
3-Chloro-1-propene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
o-Chlorotoluene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Cyclohexane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,2-Dibromoethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,2-Dichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,3-Dichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,4-Dichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Dichlorodifluoromethane	0.32J	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,1-Dichloroethane	16.7	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,2-Dichloroethane	0.35J	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,1-Dichloroethene	0.43J	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
cis-1,2-Dichloroethene	65.9	ppbv		10.0	4.0	TO-15		8/26/10 07:20	JSS	A
trans-1,2-Dichloroethene	1.0	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,2-Dichloropropane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
cis-1,3-Dichloropropene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
trans-1,3-Dichloropropene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,3-Dichloropropene, Total	1.0 U	ppbv		1.0	0.40	TO-15		8/27/10 05:43	JSS	A
Diisopropyl ether	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,4-Dioxane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Ethyl Acetate	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Ethyl tert-butyl ether	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Ethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
4-Ethyltoluene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Freon 113	15.9	ppbv		10.0	4.0	TO-15		8/26/10 07:20	JSS	A
Freon-114	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Heptane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Hexachlorobutadiene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Hexane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A

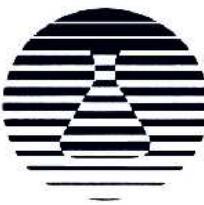


## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID:	9861460002	Date Collected:	8/19/2010 14:00	Matrix:	Air
Sample ID:	SVE TI - 081910-02	Date Received:	8/20/2010 09:25		

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed By	By	Cntr
2-Hexanone	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Isopropyl Alcohol	0.29J	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Isopropylbenzene	7.3	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
p-Isopropyltoluene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Methyl t-Butyl Ether	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
4-Methyl-2-Pentanone(MIBK)	0.23J	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Methylene Chloride	1.9	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Naphthalene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
iso-Octane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
n-Propylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Propylene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Styrene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,1,2,2-Tetrachloroethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Tetrachloroethene	242	ppbv		10.0	4.0	TO-15		8/26/10 07:20	JSS	A
Tetrahydrofuran	9.5	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Toluene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Total Xylenes	1.5 U	ppbv		1.5	0.60	TO-15		8/27/10 05:43	JSS	A
1,2,4-Trichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,1,1-Trichloroethane	47.6	ppbv		10.0	4.0	TO-15		8/26/10 07:20	JSS	A
1,1,2-Trichloroethane	0.29J	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Trichloroethene	179	ppbv		10.0	4.0	TO-15		8/26/10 07:20	JSS	A
Trichlorofluoromethane	0.28J	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,2,3-Trichloropropane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,2,4-Trimethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,3,5-Trimethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
1,2,3-Trimethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Vinyl Acetate	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Vinyl Bromide	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
Vinyl Chloride	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
o-Xylene	0.30J	ppbv		0.50	0.20	TO-15		8/27/10 05:43	JSS	A
mp-Xylene	1.0 U	ppbv		1.0	0.40	TO-15		8/27/10 05:43	JSS	A
Acetone	6.3	ug/m3		1.2	0.48	TO-15		8/27/10 05:43	JSS	A
Acrylonitrile	1.1 U	ug/m3		1.1	0.43	TO-15		8/27/10 05:43	JSS	A
tert-Amyl methyl ether	2.1 U	ug/m3		2.1	0.84	TO-15		8/27/10 05:43	JSS	A
Benzene	1.6 U	ug/m3		1.6	0.64	TO-15		8/27/10 05:43	JSS	A
Benzyl Chloride	2.6 U	ug/m3		2.6	1.0	TO-15		8/27/10 05:43	JSS	A
Bromodichloromethane	3.4 U	ug/m3		3.4	1.3	TO-15		8/27/10 05:43	JSS	A
Bromoform	5.2 U	ug/m3		5.2	2.1	TO-15		8/27/10 05:43	JSS	A
Bromomethane	1.9 U	ug/m3		1.9	0.78	TO-15		8/27/10 05:43	JSS	A
1,3-Butadiene	1.1 U	ug/m3		1.1	0.44	TO-15		8/27/10 05:43	JSS	A
2-Butanone	7.5	ug/m3		1.5	0.59	TO-15		8/27/10 05:43	JSS	A
tert.- Butyl Alcohol	1.5 U	ug/m3		1.5	0.61	TO-15		8/27/10 05:43	JSS	A
Carbon Disulfide	1.6 U	ug/m3		1.6	0.62	TO-15		8/27/10 05:43	JSS	A
Carbon Tetrachloride	1.9J	ug/m3		3.1	1.3	TO-15		8/27/10 05:43	JSS	A
Chlorobenzene	2.3 U	ug/m3		2.3	0.92	TO-15		8/27/10 05:43	JSS	A
Chlorodibromomethane	4.3 U	ug/m3		4.3	1.7	TO-15		8/27/10 05:43	JSS	A



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## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID: **9861460002** Date Collected: 8/19/2010 14:00 Matrix: Air  
Sample ID: **SVE TI - 081910-02** Date Received: 8/20/2010 09:25

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed By	By	Cntr
Chloroethane	1.3 U	ug/m3		1.3	0.53	TO-15			8/27/10 05:43	JSS A
Chloroform	5.8	ug/m3		2.4	0.98	TO-15			8/27/10 05:43	JSS A
Chloromethane	1.0 U	ug/m3		1.0	0.41	TO-15			8/27/10 05:43	JSS A
3-Chloro-1-propene	1.6 U	ug/m3		1.6	0.63	TO-15			8/27/10 05:43	JSS A
o-Chlorotoluene	2.6 U	ug/m3		2.6	1.0	TO-15			8/27/10 05:43	JSS A
Cyclohexane	1.7 U	ug/m3		1.7	0.69	TO-15			8/27/10 05:43	JSS A
1,2-Dibromoethane	3.8 U	ug/m3		3.8	1.5	TO-15			8/27/10 05:43	JSS A
1,2-Dichlorobenzene	3.0 U	ug/m3		3.0	1.2	TO-15			8/27/10 05:43	JSS A
1,3-Dichlorobenzene	3.0 U	ug/m3		3.0	1.2	TO-15			8/27/10 05:43	JSS A
1,4-Dichlorobenzene	3.0 U	ug/m3		3.0	1.2	TO-15			8/27/10 05:43	JSS A
Dichlorodifluoromethane	1.6J	ug/m3		2.5	0.99	TO-15			8/27/10 05:43	JSS A
1,1-Dichloroethane	67.6	ug/m3		2.0	0.81	TO-15			8/27/10 05:43	JSS A
1,2-Dichloroethane	1.4J	ug/m3		2.0	0.81	TO-15			8/27/10 05:43	JSS A
1,1-Dichloroethene	1.7J	ug/m3		2.0	0.79	TO-15			8/27/10 05:43	JSS A
cis-1,2-Dichloroethene	261	ug/m3		40.0	15.8	TO-15			8/26/10 07:20	JSS A
trans-1,2-Dichloroethene	4.0	ug/m3		2.0	0.79	TO-15			8/27/10 05:43	JSS A
1,2-Dichloropropane	2.3 U	ug/m3		2.3	0.92	TO-15			8/27/10 05:43	JSS A
cis-1,3-Dichloropropene	2.3 U	ug/m3		2.3	0.91	TO-15			8/27/10 05:43	JSS A
trans-1,3-Dichloropropene	2.3 U	ug/m3		2.3	0.91	TO-15			8/27/10 05:43	JSS A
1,3-Dichloropropene, Total	4.5 U	ug/m3		4.5	1.8	TO-15			8/27/10 05:43	JSS A
Diisopropyl ether	2.1 U	ug/m3		2.1	0.84	TO-15			8/27/10 05:43	JSS A
1,4-Dioxane	1.8 U	ug/m3		1.8	0.72	TO-15			8/27/10 05:43	JSS A
Ethyl Acetate	1.8 U	ug/m3		1.8	0.84	TO-15			8/27/10 05:43	JSS A
Ethyl tert-butyl ether	2.1 U	ug/m3		2.1	0.84	TO-15			8/27/10 05:43	JSS A
Ethylbenzene	2.2 U	ug/m3		2.2	0.87	TO-15			8/27/10 05:43	JSS A
4-Ethyltoluene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 05:43	JSS A
Freon 113	122	ug/m3		76.0	30.6	TO-15			8/26/10 07:20	JSS A
Freon-114	3.5 U	ug/m3		3.5	1.4	TO-15			8/27/10 05:43	JSS A
Heptane	2.0 U	ug/m3		2.0	0.82	TO-15			8/27/10 05:43	JSS A
Hexachlorobutadiene	5.3 U	ug/m3		5.3	2.1	TO-15			8/27/10 05:43	JSS A
Hexane	1.8 U	ug/m3		1.8	0.70	TO-15			8/27/10 05:43	JSS A
2-Hexanone	2.1 U	ug/m3		2.1	0.82	TO-15			8/27/10 05:43	JSS A
Isopropyl Alcohol	0.72J	ug/m3		1.2	0.49	TO-15			8/27/10 05:43	JSS A
Isopropylbenzene	35.9	ug/m3		2.5	1.0	TO-15			8/27/10 05:43	JSS A
p-Isopropyltoluene	2.7 U	ug/m3		2.7	1.1	TO-15			8/27/10 05:43	JSS A
Methyl t-Butyl Ether	1.8 U	ug/m3		1.8	0.72	TO-15			8/27/10 05:43	JSS A
4-Methyl-2-Pentanone(MIBK)	0.94J	ug/m3		2.0	0.82	TO-15			8/27/10 05:43	JSS A
Methylene Chloride	6.6	ug/m3		1.7	0.69	TO-15			8/27/10 05:43	JSS A
Naphthalene	2.6 U	ug/m3		2.6	1.1	TO-15			8/27/10 05:43	JSS A
iso-Octane	2.3 U	ug/m3		2.3	0.93	TO-15			8/27/10 05:43	JSS A
n-Propylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 05:43	JSS A
Propylene	0.86 U	ug/m3		0.86	0.34	TO-15			8/27/10 05:43	JSS A
Styrene	2.1 U	ug/m3		2.1	0.85	TO-15			8/27/10 05:43	JSS A
1,1,2,2-Tetrachloroethane	3.4 U	ug/m3		3.4	1.4	TO-15			8/27/10 05:43	JSS A
Tetrachloroethene	1640	ug/m3		68.0	27.2	TO-15			8/26/10 07:20	JSS A
Tetrahydrofuran	28.0	ug/m3		1.5	0.59	TO-15			8/27/10 05:43	JSS A



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## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID: **9861460002** Date Collected: 8/19/2010 14:00 Matrix: Air  
Sample ID: **SVE TI - 081910-02** Date Received: 8/20/2010 09:25

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene	1.9 U	ug/m3		1.9	0.75	TO-15			8/27/10 05:43	JSS	A
Total Xylenes	6.5 U	ug/m3		6.5	2.6	TO-15			8/27/10 05:43	JSS	A
1,2,4-Trichlorobenzene	3.7 U	ug/m3		3.7	1.5	TO-15			8/27/10 05:43	JSS	A
1,1,1-Trichloroethane	260	ug/m3		54.0	21.8	TO-15			8/26/10 07:20	JSS	A
1,1,2-Trichloroethane	1.6J	ug/m3		2.7	1.1	TO-15			8/27/10 05:43	JSS	A
Trichloroethene	960	ug/m3		54.0	21.4	TO-15			8/26/10 07:20	JSS	A
Trichlorofluoromethane	1.6J	ug/m3		2.8	1.1	TO-15			8/27/10 05:43	JSS	A
1,2,3-Trichloropropane	3.0 U	ug/m3		3.0	1.2	TO-15			8/27/10 05:43	JSS	A
1,2,4-Trimethylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 05:43	JSS	A
1,3,5-Trimethylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 05:43	JSS	A
1,2,3-Trimethylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 05:43	JSS	A
Vinyl Acetate	1.8 U	ug/m3		1.8	0.70	TO-15			8/27/10 05:43	JSS	A
Vinyl Bromide	2.2 U	ug/m3		2.2	0.87	TO-15			8/27/10 05:43	JSS	A
Vinyl Chloride	1.3 U	ug/m3		1.3	0.51	TO-15			8/27/10 05:43	JSS	A
o-Xylene	1.3J	ug/m3		2.2	0.87	TO-15			8/27/10 05:43	JSS	A
mp-Xylenes	4.3 U	ug/m3		4.3	1.7	TO-15			8/27/10 05:43	JSS	A
Surrogate Recoveries	Results	Units	Footnotes	Limits		Method	Prepared	By	Analyzed	By	Cntr
4-Bromofluorobenzene (S)	103	%		70-130		TO-15			8/26/10 07:20	JSS	A
4-Bromofluorobenzene (S)	99.5	%		70-130		TO-15			8/27/10 05:43	JSS	A

**Sample Comments:**

Anna G Milliken

Laboratory Manager



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## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID:	9861460003	Date Collected:	8/19/2010 12:30	Matrix:	Air
Sample ID:	SVE TE - 081910	Date Received:	8/20/2010 09:25		

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed By	By	Cntr
<b>VOLATILE ORGANICS @ STP</b>										
Acetone	6.1	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Acrylonitrile	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
tert-Amyl methyl ether	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Benzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Benzyl Chloride	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Bromodichloromethane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Bromoform	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Bromomethane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,3-Butadiene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
2-Butanone	0.97	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
tert.- Butyl Alcohol	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Carbon Disulfide	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Carbon Tetrachloride	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Chlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Chlorodibromomethane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Chloroethane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Chloroform	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Chloromethane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
3-Chloro-1-propene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
o-Chlorotoluene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Cyclohexane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,2-Dibromoethane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,2-Dichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,3-Dichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,4-Dichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Dichlorodifluoromethane	0.28J	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,1-Dichloroethane	2.8	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,2-Dichloroethane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,1-Dichloroethene	1.4	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
cis-1,2-Dichloroethene	2.8	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
trans-1,2-Dichloroethene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,2-Dichloropropane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
cis-1,3-Dichloropropene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
trans-1,3-Dichloropropene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,3-Dichloropropene, Total	1.0 U	ppbv		1.0	0.40	TO-15			8/27/10 06:26	JSS A
Diisopropyl ether	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
1,4-Dioxane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Ethyl Acetate	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Ethyl tert-butyl ether	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Ethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
4-Ethyltoluene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Freon 113	0.83	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Freon-114	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Heptane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Hexachlorobutadiene	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A
Hexane	0.50 U	ppbv		0.50	0.20	TO-15			8/27/10 06:26	JSS A



## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID:	9861460003	Date Collected:	8/19/2010 12:30	Matrix:	Air
Sample ID:	SVE TE - 081910	Date Received:	8/20/2010 09:25		

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed By	By	Cntr
2-Hexanone	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Isopropyl Alcohol	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Isopropylbenzene	5.8	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
p-Isopropyltoluene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Methyl t-Butyl Ether	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
4-Methyl-2-Pentanone(MIBK)	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Methylene Chloride	0.43J	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Naphthalene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
iso-Octane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
n-Propylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Propylene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Styrene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
1,1,2,2-Tetrachloroethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Tetrachloroethene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Tetrahydrofuran	2.0	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Toluene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Total Xylenes	1.5 U	ppbv		1.5	0.60	TO-15		8/27/10 06:26	JSS	A
1,2,4-Trichlorobenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
1,1,1-Trichloroethane	0.40J	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
1,1,2-Trichloroethane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Trichloroethene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Trichlorofluoromethane	0.33J	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
1,2,3-Trichloropropane	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
1,2,4-Trimethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
1,3,5-Trimethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
1,2,3-Trimethylbenzene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Vinyl Acetate	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Vinyl Bromide	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
Vinyl Chloride	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
o-Xylene	0.50 U	ppbv		0.50	0.20	TO-15		8/27/10 06:26	JSS	A
mp-Xylene	1.0 U	ppbv		1.0	0.40	TO-15		8/27/10 06:26	JSS	A
Acetone	14.5	ug/m3		1.2	0.48	TO-15		8/27/10 06:26	JSS	A
Acrylonitrile	1.1 U	ug/m3		1.1	0.43	TO-15		8/27/10 06:26	JSS	A
tert-Amyl methyl ether	2.1 U	ug/m3		2.1	0.84	TO-15		8/27/10 06:26	JSS	A
Benzene	1.6 U	ug/m3		1.6	0.64	TO-15		8/27/10 06:26	JSS	A
Benzyl Chloride	2.6 U	ug/m3		2.6	1.0	TO-15		8/27/10 06:26	JSS	A
Bromodichloromethane	3.4 U	ug/m3		3.4	1.3	TO-15		8/27/10 06:26	JSS	A
Bromoform	5.2 U	ug/m3		5.2	2.1	TO-15		8/27/10 06:26	JSS	A
Bromomethane	1.9 U	ug/m3		1.9	0.78	TO-15		8/27/10 06:26	JSS	A
1,3-Butadiene	1.1 U	ug/m3		1.1	0.44	TO-15		8/27/10 06:26	JSS	A
2-Butanone	2.9	ug/m3		1.5	0.59	TO-15		8/27/10 06:26	JSS	A
tert.- Butyl Alcohol	1.5 U	ug/m3		1.5	0.61	TO-15		8/27/10 06:26	JSS	A
Carbon Disulfide	1.6 U	ug/m3		1.6	0.62	TO-15		8/27/10 06:26	JSS	A
Carbon Tetrachloride	3.1 U	ug/m3		3.1	1.3	TO-15		8/27/10 06:26	JSS	A
Chlorobenzene	2.3 U	ug/m3		2.3	0.92	TO-15		8/27/10 06:26	JSS	A
Chlorodibromomethane	4.3 U	ug/m3		4.3	1.7	TO-15		8/27/10 06:26	JSS	A



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## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID:	<b>9861460003</b>	Date Collected:	8/19/2010 12:30	Matrix:	Air
Sample ID:	<b>SVE TE - 081910</b>	Date Received:	8/20/2010 09:25		

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared By	Analyzed By	By	Cntr
Chloroethane	1.3 U	ug/m3		1.3	0.53	TO-15		8/27/10 06:26	JSS	A
Chloroform	2.4 U	ug/m3		2.4	0.98	TO-15		8/27/10 06:26	JSS	A
Chloromethane	1.0 U	ug/m3		1.0	0.41	TO-15		8/27/10 06:26	JSS	A
3-Chloro-1-propene	1.6 U	ug/m3		1.6	0.63	TO-15		8/27/10 06:26	JSS	A
o-Chlorotoluene	2.6 U	ug/m3		2.6	1.0	TO-15		8/27/10 06:26	JSS	A
Cyclohexane	1.7 U	ug/m3		1.7	0.69	TO-15		8/27/10 06:26	JSS	A
1,2-Dibromoethane	3.8 U	ug/m3		3.8	1.5	TO-15		8/27/10 06:26	JSS	A
1,2-Dichlorobenzene	3.0 U	ug/m3		3.0	1.2	TO-15		8/27/10 06:26	JSS	A
1,3-Dichlorobenzene	3.0 U	ug/m3		3.0	1.2	TO-15		8/27/10 06:26	JSS	A
1,4-Dichlorobenzene	3.0 U	ug/m3		3.0	1.2	TO-15		8/27/10 06:26	JSS	A
Dichlorodifluoromethane	1.4J	ug/m3		2.5	0.99	TO-15		8/27/10 06:26	JSS	A
1,1-Dichloroethane	11.2	ug/m3		2.0	0.81	TO-15		8/27/10 06:26	JSS	A
1,2-Dichloroethane	2.0 U	ug/m3		2.0	0.81	TO-15		8/27/10 06:26	JSS	A
1,1-Dichloroethene	5.5	ug/m3		2.0	0.79	TO-15		8/27/10 06:26	JSS	A
cis-1,2-Dichloroethene	11.0	ug/m3		2.0	0.79	TO-15		8/27/10 06:26	JSS	A
trans-1,2-Dichloroethene	2.0 U	ug/m3		2.0	0.79	TO-15		8/27/10 06:26	JSS	A
1,2-Dichloropropane	2.3 U	ug/m3		2.3	0.92	TO-15		8/27/10 06:26	JSS	A
cis-1,3-Dichloropropene	2.3 U	ug/m3		2.3	0.91	TO-15		8/27/10 06:26	JSS	A
trans-1,3-Dichloropropene	2.3 U	ug/m3		2.3	0.91	TO-15		8/27/10 06:26	JSS	A
1,3-Dichloropropene, Total	4.5 U	ug/m3		4.5	1.8	TO-15		8/27/10 06:26	JSS	A
Diisopropyl ether	2.1 U	ug/m3		2.1	0.84	TO-15		8/27/10 06:26	JSS	A
1,4-Dioxane	1.8 U	ug/m3		1.8	0.72	TO-15		8/27/10 06:26	JSS	A
Ethyl Acetate	1.8 U	ug/m3		1.8	0.84	TO-15		8/27/10 06:26	JSS	A
Ethyl tert-butyl ether	2.1 U	ug/m3		2.1	0.84	TO-15		8/27/10 06:26	JSS	A
Ethylbenzene	2.2 U	ug/m3		2.2	0.87	TO-15		8/27/10 06:26	JSS	A
4-Ethyltoluene	2.5 U	ug/m3		2.5	0.98	TO-15		8/27/10 06:26	JSS	A
Freon 113	6.4	ug/m3		3.8	1.5	TO-15		8/27/10 06:26	JSS	A
Freon-114	3.5 U	ug/m3		3.5	1.4	TO-15		8/27/10 06:26	JSS	A
Heptane	2.0 U	ug/m3		2.0	0.82	TO-15		8/27/10 06:26	JSS	A
Hexachlorobutadiene	5.3 U	ug/m3		5.3	2.1	TO-15		8/27/10 06:26	JSS	A
Hexane	1.8 U	ug/m3		1.8	0.70	TO-15		8/27/10 06:26	JSS	A
2-Hexanone	2.1 U	ug/m3		2.1	0.82	TO-15		8/27/10 06:26	JSS	A
Isopropyl Alcohol	1.2 U	ug/m3		1.2	0.49	TO-15		8/27/10 06:26	JSS	A
Isopropylbenzene	28.7	ug/m3		2.5	1.0	TO-15		8/27/10 06:26	JSS	A
p-Isopropyltoluene	2.7 U	ug/m3		2.7	1.1	TO-15		8/27/10 06:26	JSS	A
Methyl t-Butyl Ether	1.8 U	ug/m3		1.8	0.72	TO-15		8/27/10 06:26	JSS	A
4-Methyl-2-Pentanone(MIBK)	2.0 U	ug/m3		2.0	0.82	TO-15		8/27/10 06:26	JSS	A
Methylene Chloride	1.5J	ug/m3		1.7	0.69	TO-15		8/27/10 06:26	JSS	A
Naphthalene	2.6 U	ug/m3		2.6	1.1	TO-15		8/27/10 06:26	JSS	A
iso-Octane	2.3 U	ug/m3		2.3	0.93	TO-15		8/27/10 06:26	JSS	A
n-Propylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15		8/27/10 06:26	JSS	A
Propylene	0.86 U	ug/m3		0.86	0.34	TO-15		8/27/10 06:26	JSS	A
Styrene	2.1 U	ug/m3		2.1	0.85	TO-15		8/27/10 06:26	JSS	A
1,1,2,2-Tetrachloroethane	3.4 U	ug/m3		3.4	1.4	TO-15		8/27/10 06:26	JSS	A
Tetrachloroethene	3.4 U	ug/m3		3.4	1.4	TO-15		8/27/10 06:26	JSS	A
Tetrahydrofuran	6.0	ug/m3		1.5	0.59	TO-15		8/27/10 06:26	JSS	A



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## ANALYTICAL RESULTS

Workorder: 9861460 Site 1 Bethpage NY

Lab ID: **9861460003**

Date Collected: 8/19/2010 12:30

Matrix: Air

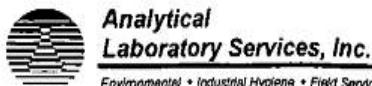
Sample ID: **SVE TE - 081910**

Date Received: 8/20/2010 09:25

Parameters	Results	Units	Footnotes	RDL	MDL	Method	Prepared	By	Analyzed	By	Cntr
Toluene	1.9 U	ug/m3		1.9	0.75	TO-15			8/27/10 06:26	JSS	A
Total Xylenes	6.5 U	ug/m3		6.5	2.6	TO-15			8/27/10 06:26	JSS	A
1,2,4-Trichlorobenzene	3.7 U	ug/m3		3.7	1.5	TO-15			8/27/10 06:26	JSS	A
1,1,1-Trichloroethane	2.2J	ug/m3		2.7	1.1	TO-15			8/27/10 06:26	JSS	A
1,1,2-Trichloroethane	2.7 U	ug/m3		2.7	1.1	TO-15			8/27/10 06:26	JSS	A
Trichloroethene	2.7 U	ug/m3		2.7	1.1	TO-15			8/27/10 06:26	JSS	A
Trichlorofluoromethane	1.8J	ug/m3		2.8	1.1	TO-15			8/27/10 06:26	JSS	A
1,2,3-Trichloropropane	3.0 U	ug/m3		3.0	1.2	TO-15			8/27/10 06:26	JSS	A
1,2,4-Trimethylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 06:26	JSS	A
1,3,5-Trimethylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 06:26	JSS	A
1,2,3-Trimethylbenzene	2.5 U	ug/m3		2.5	0.98	TO-15			8/27/10 06:26	JSS	A
Vinyl Acetate	1.8 U	ug/m3		1.8	0.70	TO-15			8/27/10 06:26	JSS	A
Vinyl Bromide	2.2 U	ug/m3		2.2	0.87	TO-15			8/27/10 06:26	JSS	A
Vinyl Chloride	1.3 U	ug/m3		1.3	0.51	TO-15			8/27/10 06:26	JSS	A
o-Xylene	2.2 U	ug/m3		2.2	0.87	TO-15			8/27/10 06:26	JSS	A
mp-Xylenes	4.3 U	ug/m3		4.3	1.7	TO-15			8/27/10 06:26	JSS	A
Surrogate Recoveries	Results	Units	Footnotes	Limits		Method	Prepared	By	Analyzed	By	Cntr
4-Bromofluorobenzene (S)	93.3	%		70-130		TO-15			8/27/10 06:26	JSS	A

### Sample Comments:

  
 Anna G Milliken  
 Laboratory Manager

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# AIR ANALYSIS

## CHAIN-OF-CUSTODY/REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT / SAMPLER.  
INSTRUCTIONS ON THE BACK.**1. CLIENT INFORMATION**

Client Name/Address:	ELOR Solutions
Contact:	John Doe
Phone:	717-944-3232
Project Name:	Site 1 Re-package
BMI To:	
TAT:	<input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days. <input type="checkbox"/> Rush-Subject to ALSI approval and surcharges.
Date Required:	Approved By:
Email?	<input checked="" type="checkbox"/> Yes - ELOR Solutions
Fax?	<input checked="" type="checkbox"/> Yes - No

APPROPRIATE TEST CODE/ANALYTE LIST

**2. ANALYSES/METHOD REQUESTED**

No.	TO-15 Analyte	STD LIST	UST LIST	OTHER	TO-13 Analyte	STD LIST	OTHER	Comments
1		X						
2		X						
3		X						
4								
5								
6								
7								
8								
9								
10								

(Completed by Receiving Lab)

Cooler Temp:	24°C	Therm. ID:	101332724
No. of Coolers:	Y	N	Initial
X			TES
Custody Seals Present?			
(If present) Seals Intact?			
(TO-13) Received on Ice?			
COCs/Labels Complete/Accurate?			
Cont. in Good Cond.?			
Correct Containers?			
Correct Sample Volumes?			

Courier/Tracking #: 851779181609

**3. FIELD DATA SHEET**

SAMPLE INFORMATION FOR BOTH TO-15 AND TO-13			TO-15 FIELD DATA					TO-13 FIELD DATA					
Sample Description/Location (as it will appear on the lab report)	Sample Date	Start Time	Stop Time	Temp Deg C	1L	6L	Canister No.	Flow Controller No.	Ending Canister Pressure (Hg)	PUF No.	Pump No.	Pump Flow Rate	Total Volume
1 SITE TCE - 08/19/10 - 01	8/19/10	10:00	1300W	X	15.00		100693	-5					
2 SITE TCE - 08/19/10 - 02	8/19/10	10:00	1300	X	15.00		100694	-5					
3 SITE TCE - 08/19/10	8/19/10	10:00	1300W	X	10535		100695	-5					
4													
5													
6													
7													
8													
9													
10													

**4. SAMPLED BY (Please Print)**

LOGGED BY (signature):	John Doe	8/20/10	1307
REVIEWED BY (signature):			

**5. PROJECT INFORMATION**

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
1 IMPLED BY		2			
3 Greg Geiger - ELOR	8/19/10	1600	4		
5			6		
7			8		
9			10		

Sample Collected In	Standard	CPA
DOD	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>

EDD: Formaldehyde

ALSI Field Services:  Pickup  Labor Composite Sampling  Rental Equipment

Other: \_\_\_\_\_

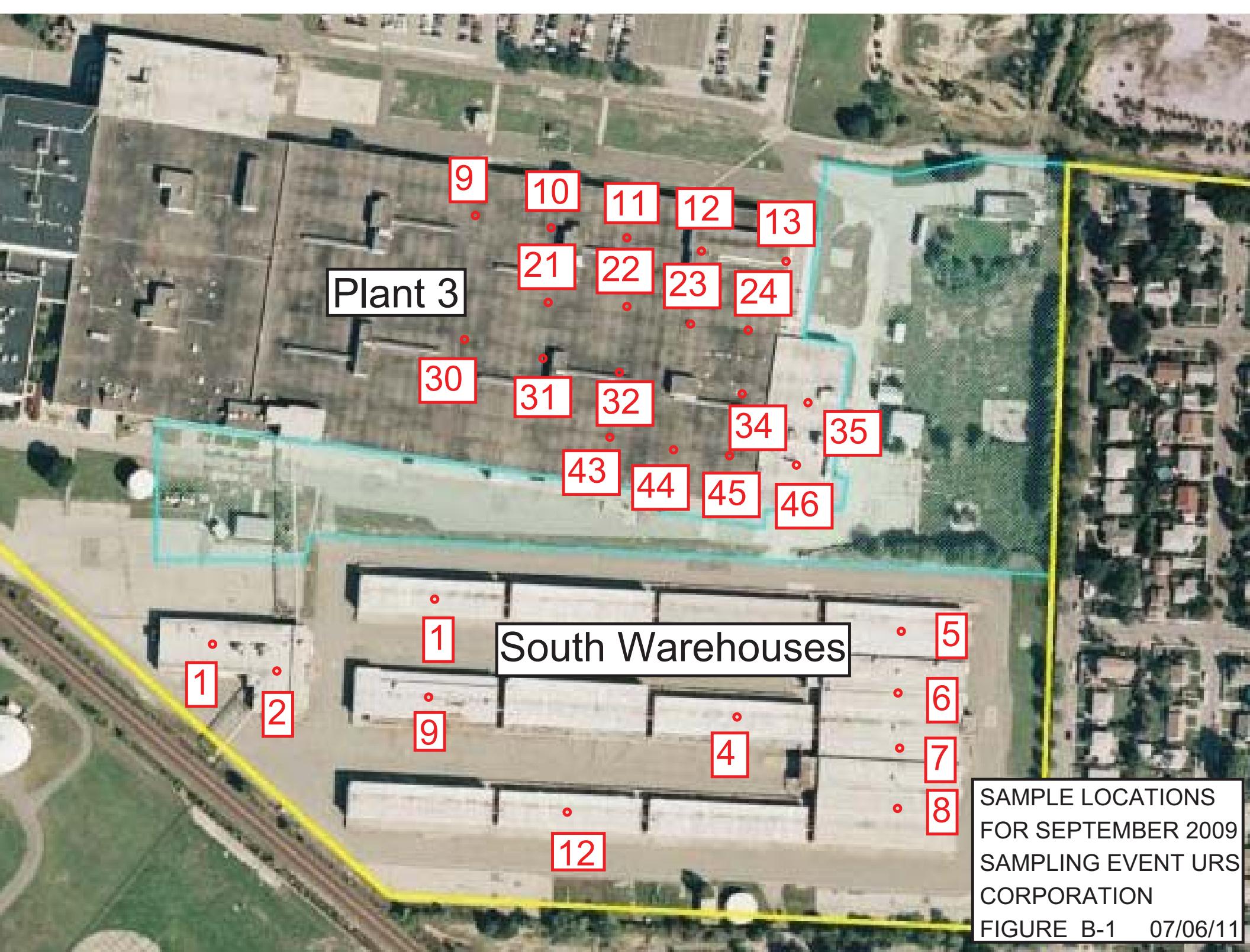
Rev 4/06



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**APPENDIX B**  
**URS CORPORATION SEPTEMBER 2009 SAMPLING**



**Report of Analysis**

Page 1 of 3

<b>Client Sample ID:</b> P03SV-09	<b>Lab Sample ID:</b> JA27118-1	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A780	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22414.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25495.D	1	09/12/09	YMH	n/a	n/a	V2W1075

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	ND	0.20	0.039	ppbv		ND	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.49	0.20	0.021	ppbv		1.6	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	1.6	0.20	0.034	ppbv		5.0	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.022	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	108 <sup>a</sup>	4.0	0.65	ppbv		437 <sup>a</sup>	16	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	1.8	0.20	0.044	ppbv		7.1	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.20	0.024	ppbv		ND	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.056	0.20	0.035	ppbv	J	0.22	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	0.077	0.040	0.037	ppbv		0.46	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.44	0.10	0.032	ppbv		2.6	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 2 of 3

Client Sample ID:	P03SV-09	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-1	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A780
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.45	0.20	0.019	ppbv		2.0	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.33	0.20	0.043	ppbv		1.6	0.98	ug/m3
76-13-1	187.4	Freon 113	13.1	0.040	0.022	ppbv		100	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.28	0.20	0.026	ppbv		1.1	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.12	0.20	0.025	ppbv	J	0.42	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.20	0.039	ppbv		ND	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.39	0.20	0.045	ppbv		1.6	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.29	0.20	0.018	ppbv		1.2	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	411 <sup>a</sup>	0.80	0.49	ppbv		2240 <sup>a</sup>	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	1.5	0.20	0.021	ppbv		7.4	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.56	0.20	0.026	ppbv		2.8	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	35.8	0.040	0.021	ppbv		243	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.1	0.20	0.018	ppbv		4.1	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	34.9	0.040	0.019	ppbv		188	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	2.9	0.040	0.021	ppbv		16	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.66	0.20	0.045	ppbv		2.9	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.46	0.20	0.023	ppbv		2.0	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.1	0.20	0.023	ppbv		4.8	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%	91%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-09	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-1	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A780
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P03SV-10	<b>Date Sampled:</b> 09/03/09
<b>Lab Sample ID:</b> JA27118-2	<b>Date Received:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A898
<b>Method:</b> TO-15	<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22415.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25496.D	1	09/12/09	YMH	n/a	n/a	V2W1075

	Initial Volume
Run #1	400 ml
Run #2	80.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	85.3 <sup>a</sup>	1.0	0.20	ppbv		203 <sup>a</sup>	2.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	5.3	0.20	0.021	ppbv		17	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.24	0.20	0.034	ppbv		0.75	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	1.3	0.20	0.040	ppbv		3.4	0.53	ug/m3
67-66-3	119.4	Chloroform	0.28	0.20	0.028	ppbv		1.4	0.98	ug/m3
74-87-3	50.49	Chloromethane	1.1	0.20	0.047	ppbv		2.3	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.21	0.040	0.022	ppbv		1.3	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.053	0.20	0.036	ppbv	J	0.21	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	12.9	0.20	0.063	ppbv		46.5	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.89	0.20	0.024	ppbv		4.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.98	0.10	0.032	ppbv		5.9	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-10	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-2	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A898
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2.7	0.50	0.077	ppbv		5.1	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	8.6	0.20	0.019	ppbv		37	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	3.4	0.040	0.022	ppbv		26	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	1.8	0.20	0.026	ppbv		7.4	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	1.5	0.20	0.019	ppbv		5.3	0.70	ug/m3
591-78-6	100	2-Hexanone	0.43	0.20	0.030	ppbv		1.8	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.7	0.20	0.035	ppbv		6.6	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.24	0.20	0.025	ppbv		0.83	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	8.1	0.20	0.039	ppbv		24	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	2.2	0.20	0.045	ppbv		9.0	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	33.3	0.50	0.061	ppbv		57.2	0.86	ug/m3
100-42-5	104.1	Styrene	4.3	0.20	0.018	ppbv		18	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	9.8	0.040	0.025	ppbv		53	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	13.6	0.20	0.021	ppbv		66.9	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	5.2	0.20	0.026	ppbv		26	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.42	0.20	0.020	ppbv		2.0	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	3.1	0.20	0.023	ppbv		9.4	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	17.8	0.040	0.021	ppbv		121	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	85.8 <sup>a</sup>	1.0	0.089	ppbv		323 <sup>a</sup>	3.8	ug/m3
79-01-6	131.4	Trichloroethylene	5.1	0.040	0.019	ppbv		27	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	5.4	0.040	0.021	ppbv		30	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	27.9	0.20	0.045	ppbv		121	0.87	ug/m3
95-47-6	106.2	o-Xylene	13.2	0.20	0.023	ppbv		57.3	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	41.1	0.20	0.023	ppbv		179	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	102%	109%	65-128%
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ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-10	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-2	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A898
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 1 of 3

<b>Client Sample ID:</b> P03SV-11	<b>Lab Sample ID:</b> JA27118-3	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A639	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22416.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25497.D	1	09/12/09	YMH	n/a	n/a	V2W1075

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	11.1	0.20	0.039	ppbv		26.4	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.38	0.20	0.021	ppbv		1.2	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	2.1	0.20	0.034	ppbv		6.5	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	13.2	0.20	0.028	ppbv		64.5	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.086	0.040	0.022	ppbv		0.54	0.25	ug/m3
110-82-7	84.16	Cyclohexane	1.1	0.20	0.061	ppbv		3.8	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	2.2	0.20	0.032	ppbv		8.9	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.33	0.20	0.044	ppbv		1.3	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.75	0.20	0.024	ppbv		3.7	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.10	0.20	0.035	ppbv	J	0.40	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.11	0.20	0.028	ppbv	J	0.44	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.38	0.10	0.032	ppbv		2.3	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-11	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-3	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A639
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	1.5	0.20	0.019	ppbv		6.5	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.075	0.20	0.043	ppbv	J	0.37	0.98	ug/m3
76-13-1	187.4	Freon 113	8.5	0.040	0.022	ppbv		65	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.75	0.20	0.026	ppbv		3.1	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	1.8	0.20	0.019	ppbv		6.3	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.22	0.20	0.025	ppbv		0.76	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.7	0.20	0.039	ppbv		11	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	3.0	0.20	0.045	ppbv		12	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	2.7	0.50	0.061	ppbv		4.6	0.86	ug/m3
100-42-5	104.1	Styrene	0.11	0.20	0.018	ppbv	J	0.47	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	192 <sup>a</sup>	0.80	0.49	ppbv		1050 <sup>a</sup>	4.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.32	0.040	0.021	ppbv		1.7	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.43	0.20	0.021	ppbv		2.1	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.14	0.20	0.026	ppbv	J	0.69	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.97	0.20	0.023	ppbv		2.9	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	17.4	0.040	0.021	ppbv		118	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	2.7	0.20	0.018	ppbv		10	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	694 <sup>a</sup>	0.80	0.37	ppbv		3730 <sup>a</sup>	4.3	ug/m3
75-69-4	137.4	Trichlorofluoromethane	2.7	0.040	0.021	ppbv		15	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	6.0	0.20	0.045	ppbv		26	0.87	ug/m3
95-47-6	106.2	o-Xylene	1.0	0.20	0.023	ppbv		4.3	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	7.0	0.20	0.023	ppbv		30	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%	92%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-11	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-3	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A639
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P03SV-12	<b>Lab Sample ID:</b> JA27118-4	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A300	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22417.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25540.D	1	09/14/09	YMH	n/a	n/a	V2W1077

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	88.6 <sup>a</sup>	0.80	0.16	ppbv		210 <sup>a</sup>	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.55	0.20	0.021	ppbv		1.8	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.33	0.20	0.034	ppbv		1.0	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	1.4	0.20	0.028	ppbv		6.8	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.31	0.040	0.022	ppbv		2.0	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	1.1	0.20	0.032	ppbv		4.5	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	1.9	0.20	0.044	ppbv		7.5	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	102 <sup>a</sup>	0.80	0.25	ppbv		368 <sup>a</sup>	2.9	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.70	0.20	0.024	ppbv		3.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.072	0.20	0.035	ppbv	J	0.29	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	1.1	0.10	0.032	ppbv		6.6	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-12	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-4	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A300
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	7.0	0.50	0.077	ppbv		13	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	3.5	0.20	0.019	ppbv		15	0.87	ug/m3
141-78-6	88	Ethyl Acetate	2.4	0.20	0.051	ppbv		8.6	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.85	0.20	0.043	ppbv		4.2	0.98	ug/m3
76-13-1	187.4	Freon 113	6.7	0.040	0.022	ppbv		51	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.71	0.20	0.026	ppbv		2.9	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.37	0.20	0.019	ppbv		1.3	0.70	ug/m3
591-78-6	100	2-Hexanone	0.41	0.20	0.030	ppbv		1.7	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.7	0.20	0.035	ppbv		6.6	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.17	0.20	0.025	ppbv	J	0.59	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.5	0.20	0.039	ppbv		10	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	2.1	0.20	0.045	ppbv		8.6	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	1.4	0.50	0.061	ppbv		2.4	0.86	ug/m3
100-42-5	104.1	Styrene	1.4	0.20	0.018	ppbv		6.0	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	49.7 <sup>a</sup>	0.16	0.098	ppbv		271 <sup>a</sup>	0.87	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	6.5	0.20	0.021	ppbv		32	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.6	0.20	0.026	ppbv		7.9	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	17.4	0.20	0.023	ppbv		52.7	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	43.0 <sup>a</sup>	0.16	0.083	ppbv		292 <sup>a</sup>	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	3.7	0.20	0.018	ppbv		14	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	75.0 <sup>a</sup>	0.16	0.074	ppbv		403 <sup>a</sup>	0.86	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.0	0.040	0.021	ppbv		5.6	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	12.5	0.20	0.045	ppbv		54.3	0.87	ug/m3
95-47-6	106.2	o-Xylene	3.2	0.20	0.023	ppbv		14	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	15.7	0.20	0.023	ppbv		68.2	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	96%	65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-12	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-4	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A300
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P03SV-13	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-5	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A237,A407
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22418.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25541.D	80	09/15/09	YMH	n/a	n/a	V2W1077

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	10.9	0.20	0.039	ppbv		25.9	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	1.1	0.20	0.021	ppbv		3.5	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.17	0.20	0.034	ppbv	J	0.53	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	8.5	0.20	0.028	ppbv		42	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.32	0.040	0.022	ppbv		2.0	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.42	0.20	0.032	ppbv		1.7	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.67	0.20	0.024	ppbv		3.3	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.51	0.20	0.035	ppbv		2.0	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	2.6	0.20	0.028	ppbv		10	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.47	0.10	0.032	ppbv		2.8	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-13	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-5	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A237,A407
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.085	0.20	0.019	ppbv	J	0.37	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	5.3	0.040	0.022	ppbv		41	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.25	0.20	0.025	ppbv		0.87	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.20	0.039	ppbv		ND	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	0.86	0.50	0.061	ppbv		1.5	0.86	ug/m3
100-42-5	104.1	Styrene	0.078	0.20	0.018	ppbv	J	0.33	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	12.4	0.040	0.025	ppbv		67.7	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	1.2	0.040	0.021	ppbv		6.5	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.15	0.20	0.021	ppbv	J	0.74	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	781 <sup>a</sup>	13	6.7	ppbv		5300 <sup>a</sup>	88	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.49	0.20	0.018	ppbv		1.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	6950 <sup>a</sup>	13	5.9	ppbv		37400 <sup>a</sup>	70	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.1	0.040	0.021	ppbv		6.2	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.27	0.20	0.045	ppbv		1.2	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.13	0.20	0.023	ppbv	J	0.56	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.40	0.20	0.023	ppbv		1.7	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	95%	81%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-13	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-5	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A237,A407
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P03SV-21	<b>Date Sampled:</b> 09/03/09
<b>Lab Sample ID:</b> JA27118-7	<b>Date Received:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A378
<b>Method:</b> TO-15	<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22421.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25542.D	1	09/15/09	YMH	n/a	n/a	V2W1077

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	4.9	0.20	0.039	ppbv		12	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.15	0.20	0.021	ppbv	J	0.48	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	19.8	0.20	0.028	ppbv		96.7	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.13	0.040	0.022	ppbv		0.82	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.37	0.20	0.032	ppbv		1.5	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.31	0.20	0.044	ppbv		1.2	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	0.14	0.20	0.036	ppbv	J	0.57	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.81	0.20	0.024	ppbv		4.0	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.081	0.20	0.035	ppbv	J	0.32	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.084	0.20	0.028	ppbv	J	0.33	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.50	0.10	0.032	ppbv		3.0	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-21	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-7	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A378
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.86	0.20	0.019	ppbv		3.7	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.4	0.20	0.051	ppbv		5.0	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.066	0.20	0.043	ppbv	J	0.32	0.98	ug/m3
76-13-1	187.4	Freon 113	4.6	0.040	0.022	ppbv		35	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.13	0.20	0.026	ppbv	J	0.53	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.11	0.20	0.019	ppbv	J	0.39	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.25	0.20	0.025	ppbv		0.87	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.23	0.20	0.039	ppbv		0.68	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.088	0.20	0.045	ppbv	J	0.36	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	2.4	0.50	0.061	ppbv		4.1	0.86	ug/m3
100-42-5	104.1	Styrene	0.082	0.20	0.018	ppbv	J	0.35	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	22.8	0.040	0.025	ppbv		124	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.32	0.040	0.021	ppbv		1.7	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.44	0.20	0.021	ppbv		2.2	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.097	0.20	0.026	ppbv	J	0.48	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	87.1 <sup>a</sup>	0.80	0.42	ppbv		591 <sup>a</sup>	5.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.8	0.20	0.018	ppbv		6.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	537 <sup>a</sup>	0.80	0.37	ppbv		2890 <sup>a</sup>	4.3	ug/m3
75-69-4	137.4	Trichlorofluoromethane	4.8	0.040	0.021	ppbv		27	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	2.2	0.20	0.045	ppbv		9.6	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.37	0.20	0.023	ppbv		1.6	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	2.6	0.20	0.023	ppbv		11	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%	81%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-21	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-7	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A378
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P03SV-22	<b>Date Sampled:</b> 09/03/09
<b>Lab Sample ID:</b> JA27118-8	<b>Date Received:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A656
<b>Method:</b> TO-15	<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22422.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25543.D	1	09/15/09	YMH	n/a	n/a	V2W1077

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	6.6	0.20	0.039	ppbv		16	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.41	0.20	0.021	ppbv		1.3	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	45.1 <sup>a</sup>	4.0	0.56	ppbv		220 <sup>a</sup>	20	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.30	0.040	0.022	ppbv		1.9	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.90	0.20	0.032	ppbv		3.6	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.29	0.20	0.044	ppbv		1.1	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.3	0.20	0.024	ppbv		6.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.085	0.20	0.035	ppbv	J	0.34	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	1.2	0.10	0.032	ppbv		7.2	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-22	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-8	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A656
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.51	0.20	0.019	ppbv		2.2	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.15	0.20	0.043	ppbv	J	0.74	0.98	ug/m3
76-13-1	187.4	Freon 113	14.6	0.040	0.022	ppbv		112	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.14	0.20	0.026	ppbv	J	0.57	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	0.22	0.20	0.030	ppbv		0.90	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.17	0.20	0.025	ppbv	J	0.59	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.41	0.20	0.039	ppbv		1.2	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.21	0.20	0.045	ppbv		0.86	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	1.3	0.20	0.018	ppbv		5.5	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	27.9	0.040	0.025	ppbv		152	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	1.2	0.040	0.021	ppbv		6.5	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.87	0.20	0.021	ppbv		4.3	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.20	0.20	0.026	ppbv		0.98	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	403 <sup>a</sup>	0.80	0.42	ppbv		2730 <sup>a</sup>	5.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.4	0.20	0.018	ppbv		5.3	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	311 <sup>a</sup>	0.80	0.37	ppbv		1670 <sup>a</sup>	4.3	ug/m3
75-69-4	137.4	Trichlorofluoromethane	11.7	0.040	0.021	ppbv		65.7	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	2.0	0.20	0.045	ppbv		8.7	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.59	0.20	0.023	ppbv		2.6	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	2.6	0.20	0.023	ppbv		11	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%	83%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-22	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-8	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A656
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P03SV-23	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-9	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A473,A807
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22423.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25544.D	29	09/15/09	YMH	n/a	n/a	V2W1077

	Initial Volume
Run #1	400 ml
Run #2	200 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	2.6	0.20	0.039	ppbv		6.2	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.29	0.20	0.021	ppbv		0.93	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	4.9	0.20	0.028	ppbv		24	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.27	0.040	0.022	ppbv		1.7	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.16	0.20	0.032	ppbv	J	0.65	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.065	0.20	0.044	ppbv	J	0.26	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.92	0.20	0.024	ppbv		4.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.084	0.20	0.035	ppbv	J	0.33	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.064	0.20	0.028	ppbv	J	0.25	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.27	0.10	0.032	ppbv		1.6	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-23	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-9	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A473,A807
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2.8	0.50	0.077	ppbv		5.3	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.068	0.20	0.019	ppbv	J	0.30	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.6	0.20	0.051	ppbv		5.8	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	3.9	0.040	0.022	ppbv		30	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.34	0.20	0.025	ppbv		1.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.48	0.20	0.039	ppbv		1.4	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.17	0.20	0.018	ppbv	J	0.72	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	18.1	0.040	0.025	ppbv		98.8	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.049	0.040	0.021	ppbv		0.27	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.021	ppbv		ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1500 <sup>a</sup>	2.3	1.2	ppbv		10200 <sup>a</sup>	16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.16	0.20	0.018	ppbv	J	0.60	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	269 <sup>a</sup>	2.3	1.1	ppbv		1450 <sup>a</sup>	12	ug/m3
75-69-4	137.4	Trichlorofluoromethane	3.2	0.040	0.021	ppbv		18	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.23	0.20	0.045	ppbv		1.0	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.16	0.20	0.023	ppbv	J	0.69	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.39	0.20	0.023	ppbv		1.7	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%	81%	65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-23	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-9	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A473,A807
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P03SV-24	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-10	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A091,A402
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22424.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25545.D	31	09/15/09	YMH	n/a	n/a	V2W1077

	Initial Volume
Run #1	400 ml
Run #2	200 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	12.7	0.20	0.039	ppbv		30.2	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.29	0.20	0.021	ppbv		0.93	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	7.2	0.20	0.028	ppbv		35	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.31	0.040	0.022	ppbv		2.0	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.23	0.20	0.032	ppbv		0.93	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.0	0.20	0.024	ppbv		4.9	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.080	0.20	0.035	ppbv	J	0.32	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.11	0.20	0.028	ppbv	J	0.44	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.51	0.10	0.032	ppbv		3.1	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-24	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-10	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A091,A402
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.16	0.20	0.019	ppbv	J	0.69	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.8	0.20	0.051	ppbv		6.5	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	6.3	0.040	0.022	ppbv		48	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	0.29	0.20	0.030	ppbv		1.2	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.11	0.20	0.025	ppbv	J	0.38	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.90	0.20	0.039	ppbv		2.7	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.087	0.20	0.045	ppbv	J	0.36	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.85	0.20	0.018	ppbv		3.6	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	6.4	0.040	0.025	ppbv		35	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.13	0.040	0.021	ppbv		0.71	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.28	0.20	0.021	ppbv		1.4	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.061	0.20	0.026	ppbv	J	0.30	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1520 <sup>a</sup>	2.5	1.3	ppbv		10300 <sup>a</sup>	17	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.43	0.20	0.018	ppbv		1.6	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	636 <sup>a</sup>	2.5	1.1	ppbv		3420 <sup>a</sup>	13	ug/m3
75-69-4	137.4	Trichlorofluoromethane	2.4	0.040	0.021	ppbv		13	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.63	0.20	0.045	ppbv		2.7	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.22	0.20	0.023	ppbv		0.96	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.85	0.20	0.023	ppbv		3.7	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	81%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-24	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-10	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A091,A402
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P03SV-30	<b>Lab Sample ID:</b> JA27118-11	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A347	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22425.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25546.D	1	09/15/09	YMH	n/a	n/a	V2W1077

	Initial Volume
Run #1	400 ml
Run #2	40.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	8.1	0.20	0.039	ppbv		19	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.33	0.20	0.021	ppbv		1.1	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.37	0.20	0.034	ppbv		1.2	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	101 <sup>a</sup>	2.0	0.28	ppbv		493 <sup>a</sup>	9.8	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.13	0.040	0.022	ppbv		0.82	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.68	0.20	0.032	ppbv		2.8	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.14	0.20	0.044	ppbv	J	0.56	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.86	0.20	0.024	ppbv		4.3	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.060	0.20	0.035	ppbv	J	0.24	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.047	0.20	0.028	ppbv	J	0.19	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.99	0.10	0.032	ppbv		6.0	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-30	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-11	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A347
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.24	0.20	0.019	ppbv		1.0	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.75	0.20	0.051	ppbv		2.7	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.11	0.20	0.043	ppbv	J	0.54	0.98	ug/m3
76-13-1	187.4	Freon 113	21.6	0.040	0.022	ppbv		166	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.10	0.20	0.026	ppbv	J	0.41	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.63	0.20	0.025	ppbv		2.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.55	0.20	0.039	ppbv		1.6	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.29	0.20	0.045	ppbv		1.2	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.14	0.20	0.018	ppbv	J	0.60	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	8.7	0.040	0.025	ppbv		47	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.56	0.040	0.021	ppbv		3.1	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.78	0.20	0.021	ppbv		3.8	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.19	0.20	0.026	ppbv	J	0.93	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	60.9 <sup>a</sup>	0.40	0.21	ppbv		413 <sup>a</sup>	2.7	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.94	0.20	0.018	ppbv		3.5	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	205 <sup>a</sup>	0.40	0.19	ppbv		1100 <sup>a</sup>	2.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	3.4	0.040	0.021	ppbv		19	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.88	0.20	0.045	ppbv		3.8	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.38	0.20	0.023	ppbv		1.7	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.3	0.20	0.023	ppbv		5.6	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	85%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-30	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-11	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A347
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-31	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-12	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A480
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22426.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25547.D	1	09/15/09	YMH	n/a	n/a	V2W1077
Run #3	2W25565.D	1	09/15/09	YMH	n/a	n/a	V2W1078

	Initial Volume
Run #1	400 ml
Run #2	40.0 ml
Run #3	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	4.5	0.20	0.039	ppbv		11	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.54	0.20	0.021	ppbv		1.7	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	45.8 <sup>a</sup>	2.0	0.28	ppbv		224 <sup>a</sup>	9.8	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.14	0.040	0.022	ppbv		0.88	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.40	0.20	0.032	ppbv		1.6	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.14	0.20	0.044	ppbv	J	0.56	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.98	0.20	0.024	ppbv		4.8	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.053	0.20	0.035	ppbv	J	0.21	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.058	0.20	0.028	ppbv	J	0.23	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-31	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-12	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A480
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
106-46-7	147	p-Dichlorobenzene	0.25	0.10	0.032	ppbv		1.5	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.14	0.20	0.019	ppbv	J	0.61	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.89	0.20	0.051	ppbv		3.2	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	18.1	0.040	0.022	ppbv		139	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.11	0.20	0.026	ppbv	J	0.45	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.22	0.20	0.025	ppbv		0.76	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.46	0.20	0.039	ppbv		1.4	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.86	0.20	0.018	ppbv		3.7	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	9.7	0.040	0.025	ppbv		53	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.81	0.040	0.021	ppbv		4.4	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.28	0.20	0.021	ppbv		1.4	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.084	0.20	0.026	ppbv	J	0.41	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	199 <sup>a</sup>	0.40	0.21	ppbv		1350 <sup>a</sup>	2.7	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.2	0.20	0.018	ppbv		4.5	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	520 <sup>b</sup>	0.80	0.37	ppbv		2790 <sup>b</sup>	4.3	ug/m3
75-69-4	137.4	Trichlorofluoromethane	6.9	0.040	0.021	ppbv		39	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.76	0.20	0.045	ppbv		3.3	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.29	0.20	0.023	ppbv		1.3	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.1	0.20	0.023	ppbv		4.8	0.87	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-31	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-12	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A480
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	96%	84%	77%	65-128%

- (a) Result is from Run# 2  
(b) Result is from Run# 3

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 1 of 3

<b>Client Sample ID:</b> P03SV-32	<b>Lab Sample ID:</b> JA27118-13	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A017	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22427.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	2W25548.D	1	09/15/09	YMH	n/a	n/a	V2W1077

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	7.4	0.20	0.039	ppbv		18	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.27	0.20	0.021	ppbv		0.86	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	23.6	0.20	0.028	ppbv		115	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.19	0.040	0.022	ppbv		1.2	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.31	0.20	0.032	ppbv		1.3	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.33	0.20	0.044	ppbv		1.3	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	1.8	0.20	0.024	ppbv		8.9	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.068	0.20	0.035	ppbv	J	0.27	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.10	0.20	0.028	ppbv	J	0.40	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.34	0.10	0.032	ppbv		2.0	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-32	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-13	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A017
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.042	0.20	0.019	ppbv	J	0.18	0.87	ug/m3
141-78-6	88	Ethyl Acetate	2.8	0.20	0.051	ppbv		10	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	4.2	0.040	0.022	ppbv		32	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	0.14	0.20	0.030	ppbv	J	0.57	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.20	0.20	0.025	ppbv		0.69	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.95	0.20	0.039	ppbv		2.8	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.13	0.20	0.045	ppbv	J	0.53	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.070	0.20	0.018	ppbv	J	0.30	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	6.2	0.040	0.025	ppbv		34	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.27	0.040	0.021	ppbv		1.5	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.11	0.20	0.021	ppbv	J	0.54	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	399 <sup>a</sup>	0.80	0.42	ppbv		2710 <sup>a</sup>	5.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.18	0.20	0.018	ppbv	J	0.68	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	530 <sup>a</sup>	0.80	0.37	ppbv		2850 <sup>a</sup>	4.3	ug/m3
75-69-4	137.4	Trichlorofluoromethane	5.0	0.040	0.021	ppbv		28	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.15	0.20	0.045	ppbv	J	0.65	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.050	0.20	0.023	ppbv	J	0.22	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.20	0.20	0.023	ppbv		0.87	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	83%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-32	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-13	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A017
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P03SV-34	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-15	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A269,A702
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22428.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	3W12532.D	71.5	09/14/09	YMH	n/a	n/a	V3W512
Run #3	3W12549.D	71.5	09/15/09	YMH	n/a	n/a	V3W513

	Initial Volume
Run #1	400 ml
Run #2	100 ml
Run #3	40.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	5.2	0.20	0.039	ppbv	12	0.48	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv	ND	0.44	ug/m3	
71-43-2	78.11	Benzene	0.96	0.20	0.021	ppbv	3.1	0.64	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv	ND	0.27	ug/m3	
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv	ND	0.41	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv	ND	0.78	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv	ND	0.87	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv	ND	1.0	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv	ND	0.62	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv	ND	0.92	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv	ND	0.53	ug/m3	
67-66-3	119.4	Chloroform	33.0	0.20	0.028	ppbv	161	0.98	ug/m3	
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv	ND	0.41	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv	ND	0.63	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv	ND	1.0	ug/m3	
56-23-5	153.8	Carbon tetrachloride	1.2	0.040	0.022	ppbv	7.5	0.25	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv	ND	0.69	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	9.8	0.20	0.032	ppbv	40	0.81	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	13.1	0.20	0.044	ppbv	51.9	0.79	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv	ND	0.31	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	1.1	0.20	0.036	ppbv	4.5	0.81	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv	ND	0.92	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv	ND	0.72	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	0.86	0.20	0.024	ppbv	4.3	0.99	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv	ND	0.34	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	1.7	0.20	0.035	ppbv	6.7	0.79	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	35.3	0.20	0.028	ppbv	140	0.79	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv	ND	0.91	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv	ND	0.60	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv	ND	0.24	ug/m3	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-34	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-15	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A269,A702
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
106-46-7	147	p-Dichlorobenzene	1.7	0.10	0.032	ppbv		10	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.48	0.20	0.019	ppbv		2.1	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.10	0.20	0.043	ppbv	J	0.49	0.98	ug/m3
76-13-1	187.4	Freon 113	36.8	0.040	0.022	ppbv		282	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.13	0.20	0.025	ppbv	J	0.45	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.71	0.20	0.039	ppbv		2.1	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.36	0.20	0.045	ppbv		1.5	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.19	0.20	0.018	ppbv	J	0.81	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	99.8 <sup>a</sup>	11	7.0	ppbv		545 <sup>a</sup>	60	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	2.1	0.040	0.021	ppbv		11	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.54	0.20	0.021	ppbv		2.7	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.12	0.20	0.026	ppbv	J	0.59	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	9430 <sup>b</sup>	29	15	ppbv		63900 <sup>b</sup>	200	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.98	0.20	0.018	ppbv		3.7	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	3180 <sup>a</sup>	11	5.3	ppbv		17100 <sup>a</sup>	59	ug/m3
75-69-4	137.4	Trichlorofluoromethane	4.9	0.040	0.021	ppbv		28	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	1.4	0.20	0.045	ppbv		6.1	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.41	0.20	0.023	ppbv		1.8	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.8	0.20	0.023	ppbv		7.8	0.87	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-34	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-15	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A269,A702
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	98%	92%	85%	65-128%

- (a) Result is from Run# 2  
(b) Result is from Run# 3

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P03SV-35	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-16	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A897,A528
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22429.D	1	09/10/09	YMH	n/a	n/a	VW940
Run #2	3W12533.D	74	09/14/09	YMH	n/a	n/a	V3W512
Run #3	3W12550.D	74	09/15/09	YMH	n/a	n/a	V3W513

	Initial Volume
Run #1	400 ml
Run #2	100 ml
Run #3	40.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	119 <sup>a</sup>	59	12	ppbv		283 <sup>a</sup>	140	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.62	0.20	0.021	ppbv		2.0	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.26	0.20	0.034	ppbv		0.81	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	20.9	0.20	0.028	ppbv		102	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.30	0.040	0.022	ppbv		1.9	0.25	ug/m3
110-82-7	84.16	Cyclohexane	1.5	0.20	0.061	ppbv		5.2	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	24.2	0.20	0.032	ppbv		97.9	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	1.0	0.20	0.044	ppbv		4.0	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	1.3	0.20	0.036	ppbv		5.3	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.60	0.20	0.024	ppbv		3.0	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	4.4	0.20	0.035	ppbv		17	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	14.0	0.20	0.028	ppbv		55.5	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-35	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-16	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A897,A528
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
106-46-7	147	p-Dichlorobenzene	0.60	0.10	0.032	ppbv		3.6	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	2.6	0.20	0.019	ppbv		11	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.11	0.20	0.043	ppbv	J	0.54	0.98	ug/m3
76-13-1	187.4	Freon 113	13.4	0.040	0.022	ppbv		103	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.31	0.20	0.025	ppbv		1.1	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.3	0.20	0.039	ppbv		3.8	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.093	0.20	0.018	ppbv	J	0.40	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	90.9 <sup>a</sup>	12	7.3	ppbv		496 <sup>a</sup>	65	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.42	0.040	0.021	ppbv		2.3	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.41	0.20	0.021	ppbv		2.0	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.099	0.20	0.026	ppbv	J	0.49	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	9660 <sup>b</sup>	30	15	ppbv		65500 <sup>b</sup>	200	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	2.3	0.20	0.018	ppbv		8.7	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	1940 <sup>a</sup>	12	5.5	ppbv		10400 <sup>a</sup>	64	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.92	0.040	0.021	ppbv		5.2	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	5.9	0.20	0.045	ppbv		26	0.87	ug/m3
95-47-6	106.2	o-Xylene	1.7	0.20	0.023	ppbv		7.4	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	7.6	0.20	0.023	ppbv		33	0.87	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-35	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-16	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A897,A528
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
460-00-4	4-Bromofluorobenzene	85%	90%	85%	65-128%

(a) Result is from Run# 2

(b) Result is from Run# 3

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**Report of Analysis**

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<b>Client Sample ID:</b> P03SV-42	<b>Lab Sample ID:</b> JA27118-17	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A831	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22430.D	1	09/11/09	YMH	n/a	n/a	VW940
Run #2	3W12534.D	1	09/14/09	YMH	n/a	n/a	V3W512

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	4.5	0.20	0.039	ppbv		11	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.21	0.20	0.021	ppbv		0.67	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	3.8	0.20	0.028	ppbv		19	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.11	0.040	0.022	ppbv		0.69	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.17	0.20	0.032	ppbv	J	0.69	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.054	0.20	0.044	ppbv	J	0.21	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.71	0.20	0.024	ppbv		3.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.62	0.10	0.032	ppbv		3.7	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-42	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-17	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A831
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	173 <sup>a</sup>	2.0	0.31	ppbv	E	326 <sup>a</sup>	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	0.28	0.20	0.019	ppbv		1.2	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.6	0.20	0.051	ppbv		5.8	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.056	0.20	0.043	ppbv	J	0.28	0.98	ug/m3
76-13-1	187.4	Freon 113	12.3	0.040	0.022	ppbv		94.3	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.094	0.20	0.026	ppbv	J	0.39	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.14	0.20	0.025	ppbv	J	0.49	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.44	0.20	0.039	ppbv		1.3	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.15	0.20	0.045	ppbv	J	0.61	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.18	0.20	0.018	ppbv	J	0.77	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	7.3	0.040	0.025	ppbv		40	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.048	0.040	0.021	ppbv		0.26	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.33	0.20	0.021	ppbv		1.6	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.078	0.20	0.026	ppbv	J	0.38	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.1	0.20	0.023	ppbv		3.3	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	37.0 <sup>a</sup>	0.16	0.083	ppbv		251 <sup>a</sup>	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.74	0.20	0.018	ppbv		2.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	15.7	0.040	0.019	ppbv		84.4	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	3.6	0.040	0.021	ppbv		20	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.96	0.20	0.045	ppbv		4.2	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.27	0.20	0.023	ppbv		1.2	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.2	0.20	0.023	ppbv		5.2	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	90%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-42	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-17	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A831
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P03SV-43	<b>Lab Sample ID:</b> JA27118-18	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A206	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22431.D	1	09/11/09	YMH	n/a	n/a	VW940
Run #2	3W12535.D	1	09/14/09	YMH	n/a	n/a	V3W512

	Initial Volume
Run #1	400 ml
Run #2	80.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	4.0	0.20	0.039	ppbv		9.5	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.18	0.20	0.021	ppbv	J	0.58	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	7.4	0.20	0.028	ppbv		36	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.11	0.040	0.022	ppbv		0.69	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.097	0.20	0.032	ppbv	J	0.39	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.085	0.20	0.044	ppbv	J	0.34	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.70	0.20	0.024	ppbv		3.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.29	0.10	0.032	ppbv		1.7	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-43	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-18	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A206
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	2.2	0.20	0.019	ppbv		9.6	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.2	0.20	0.051	ppbv		4.3	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.096	0.20	0.043	ppbv	J	0.47	0.98	ug/m3
76-13-1	187.4	Freon 113	1.4	0.040	0.022	ppbv		11	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.089	0.20	0.026	ppbv	J	0.36	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.13	0.20	0.019	ppbv	J	0.46	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.18	0.20	0.025	ppbv	J	0.63	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.25	0.20	0.039	ppbv		0.74	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.076	0.20	0.045	ppbv	J	0.31	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.045	0.20	0.018	ppbv	J	0.19	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	7.0	0.040	0.025	ppbv		38	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	0.046	0.040	0.021	ppbv		0.25	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.63	0.20	0.021	ppbv		3.1	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.22	0.20	0.026	ppbv		1.1	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	95.1 <sup>a</sup>	0.20	0.10	ppbv		645 <sup>a</sup>	1.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	1.4	0.20	0.018	ppbv		5.3	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	52.5 <sup>a</sup>	0.20	0.093	ppbv		282 <sup>a</sup>	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	6.2	0.040	0.021	ppbv		35	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	8.5	0.20	0.045	ppbv		37	0.87	ug/m3
95-47-6	106.2	o-Xylene	1.9	0.20	0.023	ppbv		8.3	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	10.4	0.20	0.023	ppbv		45.2	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	96%	91%	65-128%
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ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-43	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-18	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A206
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P03SV-44	<b>Date Sampled:</b> 09/03/09
<b>Lab Sample ID:</b> JA27118-19	<b>Date Received:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A710
<b>Method:</b> TO-15	<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22432.D	1	09/11/09	YMH	n/a	n/a	VW940
Run #2	3W12536.D	1	09/15/09	YMH	n/a	n/a	V3W512

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	3.5	0.20	0.039	ppbv		8.3	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.21	0.20	0.021	ppbv		0.67	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	1.2	0.20	0.028	ppbv		5.9	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.12	0.040	0.022	ppbv		0.75	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.041	0.20	0.032	ppbv	J	0.17	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.62	0.20	0.024	ppbv		3.1	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.41	0.10	0.032	ppbv		2.5	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-44	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-19	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A710
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.062	0.20	0.019	ppbv	J	0.27	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.3	0.20	0.051	ppbv		4.7	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	1.3	0.040	0.022	ppbv		10	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.073	0.20	0.026	ppbv	J	0.30	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	0.12	0.20	0.030	ppbv	J	0.49	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.14	0.20	0.025	ppbv	J	0.49	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.38	0.20	0.039	ppbv		1.1	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	1.1	0.50	0.061	ppbv		1.9	0.86	ug/m3
100-42-5	104.1	Styrene	0.066	0.20	0.018	ppbv	J	0.28	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	6.6	0.040	0.025	ppbv		36	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.23	0.20	0.021	ppbv		1.1	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.069	0.20	0.026	ppbv	J	0.34	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	158 <sup>a</sup>	0.80	0.42	ppbv		1070 <sup>a</sup>	5.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.66	0.20	0.018	ppbv		2.5	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	61.9 <sup>a</sup>	0.80	0.37	ppbv		333 <sup>a</sup>	4.3	ug/m3
75-69-4	137.4	Trichlorofluoromethane	7.8	0.040	0.021	ppbv		44	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.25	0.20	0.045	ppbv		1.1	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.10	0.20	0.023	ppbv	J	0.43	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.35	0.20	0.023	ppbv		1.5	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%	90%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-44	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-19	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A710
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P03SV-45	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-20	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A487,A503
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22433.D	1	09/11/09	YMH	n/a	n/a	VW940
Run #2	3W12537.D	29	09/15/09	YMH	n/a	n/a	V3W512

	Initial Volume
Run #1	400 ml
Run #2	200 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	2.6	0.20	0.039	ppbv		6.2	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.23	0.20	0.021	ppbv		0.73	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.22	0.20	0.028	ppbv		1.1	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.095	0.040	0.022	ppbv		0.60	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.61	0.20	0.024	ppbv		3.0	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	1.3	0.10	0.032	ppbv		7.8	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-45	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-20	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A487,A503
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.066	0.20	0.019	ppbv	J	0.29	0.87	ug/m3
141-78-6	88	Ethyl Acetate	2.6	0.20	0.051	ppbv		9.4	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	1.6	0.040	0.022	ppbv		12	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.073	0.20	0.026	ppbv	J	0.30	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.21	0.20	0.025	ppbv		0.73	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.27	0.20	0.039	ppbv		0.80	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.25	0.20	0.018	ppbv		1.1	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	10.3	0.040	0.025	ppbv		56.2	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.021	ppbv		ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	725 <sup>a</sup>	2.3	1.2	ppbv		4920 <sup>a</sup>	16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.60	0.20	0.018	ppbv		2.3	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	23.4	0.040	0.019	ppbv		126	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	12.9	0.040	0.021	ppbv		72.5	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.30	0.20	0.045	ppbv		1.3	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.21	0.20	0.023	ppbv		0.91	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.51	0.20	0.023	ppbv		2.2	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%	88%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-45	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-20	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A487,A503
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P03SV-46	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-21	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A709,A676
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22434.D	1	09/11/09	YMH	n/a	n/a	VW940
Run #2	3W12538.D	28.6	09/15/09	YMH	n/a	n/a	V3W512

	Initial Volume
Run #1	400 ml
Run #2	200 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	11.0	0.20	0.039	ppbv		26.1	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.17	0.20	0.021	ppbv	J	0.54	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.66	0.20	0.028	ppbv		3.2	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.11	0.040	0.022	ppbv		0.69	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	7.8	0.20	0.032	ppbv		32	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.59	0.20	0.044	ppbv		2.3	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.61	0.20	0.024	ppbv		3.0	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.51	0.20	0.035	ppbv		2.0	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	1.9	0.20	0.028	ppbv		7.5	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.39	0.10	0.032	ppbv		2.3	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P03SV-46	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-21	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A709,A676
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2.3	0.50	0.077	ppbv		4.3	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.95	0.20	0.019	ppbv		4.1	0.87	ug/m3
141-78-6	88	Ethyl Acetate	2.3	0.20	0.051	ppbv		8.3	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	1.4	0.040	0.022	ppbv		11	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.18	0.20	0.019	ppbv	J	0.63	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.24	0.20	0.025	ppbv		0.83	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.82	0.20	0.039	ppbv		2.4	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.055	0.20	0.018	ppbv	J	0.23	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	17.3	0.040	0.025	ppbv		94.4	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.18	0.20	0.021	ppbv	J	0.88	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.052	0.20	0.026	ppbv	J	0.26	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1580 <sup>a</sup>	2.3	1.2	ppbv		10700 <sup>a</sup>	16	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.85	0.20	0.018	ppbv		3.2	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	84.5 <sup>a</sup>	2.3	1.1	ppbv		454 <sup>a</sup>	12	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.3	0.040	0.021	ppbv		7.3	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	3.2	0.20	0.045	ppbv		14	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.55	0.20	0.023	ppbv		2.4	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	3.7	0.20	0.023	ppbv		16	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	91%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P03SV-46	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-21	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A709,A676
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P10SV-01	<b>Lab Sample ID:</b> JA27118-22	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A270	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22435.D	1	09/11/09	YMH	n/a	n/a	VW940
Run #2	3W12539.D	1	09/15/09	YMH	n/a	n/a	V3W512

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	370 <sup>a</sup>	4.0	0.78	ppbv		879 <sup>a</sup>	9.5	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.87	0.20	0.021	ppbv		2.8	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	2.9	0.20	0.028	ppbv		14	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.21	0.040	0.022	ppbv		1.3	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.78	0.20	0.032	ppbv		3.2	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.20	0.024	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.76	0.20	0.035	ppbv		3.0	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	3.3	0.20	0.028	ppbv		13	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	6.1	0.10	0.032	ppbv		37	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P10SV-01	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-22	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A270
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	15.3	0.50	0.077	ppbv		28.8	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	27.9 <sup>a</sup>	4.0	0.39	ppbv		121 <sup>a</sup>	17	ug/m3
141-78-6	88	Ethyl Acetate	0.50	0.20	0.051	ppbv		1.8	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.82	0.20	0.043	ppbv		4.0	0.98	ug/m3
76-13-1	187.4	Freon 113	57.3 <sup>a</sup>	0.80	0.44	ppbv		439 <sup>a</sup>	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.32	0.20	0.026	ppbv		1.3	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	1.2	0.20	0.030	ppbv		4.9	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	179 <sup>a</sup>	4.0	0.69	ppbv	J	440 <sup>a</sup>	9.8	ug/m3
75-09-2	84.94	Methylene chloride	0.17	0.20	0.025	ppbv		0.59	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	14.0	0.20	0.039	ppbv		41.3	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	3.8	0.20	0.045	ppbv		16	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	0.74	0.50	0.061	ppbv		1.3	0.86	ug/m3
100-42-5	104.1	Styrene	0.75	0.20	0.018	ppbv		3.2	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	4.3	0.040	0.025	ppbv		23	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	3.9	0.20	0.021	ppbv		19	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.1	0.20	0.026	ppbv		5.4	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	1.0	0.20	0.023	ppbv		3.0	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	15.7	0.040	0.021	ppbv		106	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	32.1	0.20	0.018	ppbv		121	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	233 <sup>a</sup>	0.80	0.37	ppbv		1250 <sup>a</sup>	4.3	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.34	0.040	0.021	ppbv		1.9	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	106 <sup>a</sup>	4.0	0.90	ppbv		460 <sup>a</sup>	17	ug/m3
95-47-6	106.2	o-Xylene	33.2 <sup>a</sup>	4.0	0.47	ppbv		144 <sup>a</sup>	17	ug/m3
1330-20-7	106.2	Xylenes (total)	139 <sup>a</sup>	4.0	0.47	ppbv		604 <sup>a</sup>	17	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	136% <sup>b</sup>	97%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P10SV-01	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-22	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A270
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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- (a) Result is from Run# 2  
(b) Outside control limits due to matrix interference.

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P10SV-02	<b>Lab Sample ID:</b> JA27118-23	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A088	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22446.D	1	09/11/09	YMH	n/a	n/a	VW941
Run #2	3W12540.D	1	09/15/09	YMH	n/a	n/a	V3W512

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	386 <sup>a</sup>	4.0	0.78	ppbv		917 <sup>a</sup>	9.5	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	1.4	0.20	0.021	ppbv		4.5	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	34.2	0.20	0.028	ppbv		167	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.79	0.040	0.022	ppbv		5.0	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	3.7	0.20	0.032	ppbv		15	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.024	ppbv		2.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	0.42	0.20	0.035	ppbv		1.7	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	1.3	0.10	0.032	ppbv		7.8	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P10SV-02	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-23	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A088
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	122 <sup>a</sup>	10	1.5	ppbv		230 <sup>a</sup>	19	ug/m3
100-41-4	106.2	Ethylbenzene	27.1	0.20	0.019	ppbv		118	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	2.0	0.20	0.043	ppbv		9.8	0.98	ug/m3
76-13-1	187.4	Freon 113	224 <sup>a</sup>	0.80	0.44	ppbv		1720 <sup>a</sup>	6.1	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.38	0.20	0.026	ppbv		1.6	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.33	0.20	0.019	ppbv		1.2	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	31.6	0.20	0.035	ppbv		77.7	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.23	0.20	0.025	ppbv		0.80	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	34.2	0.20	0.039	ppbv		101	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	30.5	0.20	0.045	ppbv		125	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	3.5	0.50	0.061	ppbv		6.0	0.86	ug/m3
100-42-5	104.1	Styrene	0.44	0.20	0.018	ppbv		1.9	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	23.8	0.040	0.025	ppbv		130	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	10.9	0.20	0.021	ppbv		53.6	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	7.1	0.20	0.026	ppbv		35	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	4.6	0.20	0.023	ppbv		14	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	61.9 <sup>a</sup>	0.80	0.42	ppbv		420 <sup>a</sup>	5.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	8.8	0.20	0.018	ppbv		33	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	214 <sup>a</sup>	0.80	0.37	ppbv		1150 <sup>a</sup>	4.3	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.58	0.040	0.021	ppbv		3.3	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	95.9 <sup>a</sup>	4.0	0.90	ppbv		417 <sup>a</sup>	17	ug/m3
95-47-6	106.2	o-Xylene	43.9 <sup>a</sup>	4.0	0.47	ppbv		191 <sup>a</sup>	17	ug/m3
1330-20-7	106.2	Xylenes (total)	140 <sup>a</sup>	4.0	0.47	ppbv		608 <sup>a</sup>	17	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	214% <sup>b</sup>	92%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P10SV-02	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-23	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A088
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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- (a) Result is from Run# 2  
(b) Outside control limits due to matrix interference.

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P17SSV-01	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-24	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A652
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22448.D	1	09/11/09	YMH	n/a	n/a	VW941
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	2.6	0.20	0.039	ppbv		6.2	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.021	ppbv	J	0.45	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.10	0.20	0.028	ppbv	J	0.49	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.12	0.040	0.022	ppbv		0.75	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.20	0.024	ppbv		2.3	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.23	0.10	0.032	ppbv		1.4	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-01	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-24	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A652
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.1	0.50	0.077	ppbv		2.1	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.33	0.20	0.019	ppbv		1.4	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.53	0.20	0.051	ppbv		1.9	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	0.25	0.040	0.022	ppbv		1.9	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	3.3	0.20	0.035	ppbv		8.1	0.49	ug/m3
75-09-2	84.94	Methylene chloride	1.2	0.20	0.025	ppbv		4.2	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.35	0.20	0.039	ppbv		1.0	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	0.47	0.50	0.061	ppbv	J	0.81	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.018	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.16	0.040	0.025	ppbv		0.87	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.13	0.20	0.021	ppbv	J	0.64	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	19.5	0.040	0.021	ppbv		132	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.64	0.20	0.018	ppbv		2.4	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	3.5	0.040	0.019	ppbv		19	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	2.6	0.040	0.021	ppbv		15	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	1.0	0.20	0.045	ppbv		4.3	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.39	0.20	0.023	ppbv		1.7	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.4	0.20	0.023	ppbv		6.1	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P17SSV-03	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-26	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A227
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22515.D	1	09/15/09	YMH	n/a	n/a	VW944
Run #2	3W12541.D	1	09/15/09	YMH	n/a	n/a	V3W512

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	31.2	0.20	0.039	ppbv		74.1	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.44	0.20	0.021	ppbv		1.4	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.44	0.20	0.034	ppbv		1.4	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.11	0.040	0.022	ppbv		0.69	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.71	0.20	0.024	ppbv		3.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	0.11	0.10	0.032	ppbv		0.66	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	1.9	0.10	0.032	ppbv		11	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-03	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-26	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A227
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	7.3	0.20	0.019	ppbv		32	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.12	0.20	0.043	ppbv	J	0.59	0.98	ug/m3
76-13-1	187.4	Freon 113	4.9	0.040	0.022	ppbv		38	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.13	0.20	0.026	ppbv	J	0.53	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.11	0.20	0.019	ppbv	J	0.39	0.70	ug/m3
591-78-6	100	2-Hexanone	0.12	0.20	0.030	ppbv	J	0.49	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.12	0.20	0.025	ppbv	J	0.42	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	2.7	0.20	0.039	ppbv		8.0	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.27	0.20	0.045	ppbv		1.1	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	2.1	0.50	0.061	ppbv		3.6	0.86	ug/m3
100-42-5	104.1	Styrene	0.34	0.20	0.018	ppbv		1.4	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	1.2	0.040	0.025	ppbv		6.5	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.55	0.20	0.021	ppbv		2.7	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.15	0.20	0.026	ppbv	J	0.74	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	30.6 <sup>a</sup>	0.16	0.083	ppbv		208 <sup>a</sup>	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	4.8	0.20	0.018	ppbv		18	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.12	0.040	0.019	ppbv		0.64	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.96	0.040	0.021	ppbv		5.4	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	22.9	0.20	0.045	ppbv		99.5	0.87	ug/m3
95-47-6	106.2	o-Xylene	5.9	0.20	0.023	ppbv		26	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	28.9	0.20	0.023	ppbv		126	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	108%	91%	65-128%
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ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P17SSV-03	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-26	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A227
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
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J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P17SSV-04	<b>Date Sampled:</b> 09/03/09
<b>Lab Sample ID:</b> JA27118-27	<b>Date Received:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A093
<b>Method:</b> TO-15	<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22450.D	1	09/11/09	YMH	n/a	n/a	VW941
Run #2							

	<b>Initial Volume</b>
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	14.2	0.20	0.039	ppbv		33.7	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.25	0.20	0.021	ppbv		0.80	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.58	0.20	0.034	ppbv		1.8	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.022	ppbv		ND	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.54	0.20	0.024	ppbv		2.7	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.32	0.10	0.032	ppbv		1.9	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-04	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-27	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A093
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	2.3	0.50	0.077	ppbv		4.3	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	14.3	0.20	0.019	ppbv		62.1	0.87	ug/m3
141-78-6	88	Ethyl Acetate	3.3	0.20	0.051	ppbv		12	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	0.85	0.040	0.022	ppbv		6.5	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.096	0.20	0.026	ppbv	J	0.39	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.14	0.20	0.019	ppbv	J	0.49	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	6.5	0.20	0.035	ppbv		16	0.49	ug/m3
75-09-2	84.94	Methylene chloride	1.3	0.20	0.025	ppbv		4.5	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.3	0.20	0.039	ppbv		3.8	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.097	0.20	0.045	ppbv	J	0.40	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	0.97	0.50	0.061	ppbv		1.7	0.86	ug/m3
100-42-5	104.1	Styrene	0.10	0.20	0.018	ppbv	J	0.43	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	1.3	0.040	0.025	ppbv		7.1	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.32	0.20	0.021	ppbv		1.6	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.089	0.20	0.020	ppbv	J	0.42	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	5.9	0.040	0.021	ppbv		40	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	3.6	0.20	0.018	ppbv		14	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.040	0.040	0.019	ppbv		0.21	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	8.5	0.040	0.021	ppbv		48	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	48.6	0.20	0.045	ppbv		211	0.87	ug/m3
95-47-6	106.2	o-Xylene	15.6	0.20	0.023	ppbv		67.8	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	64.2	0.20	0.023	ppbv		279	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	115%		65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P17SSV-05	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-28	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A484
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22451.D	1	09/11/09	YMH	n/a	n/a	VW941
Run #2	3W12551.D	1	09/15/09	YMH	n/a	n/a	V3W513

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	2.4	0.20	0.039	ppbv		5.7	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.61	0.20	0.021	ppbv		1.9	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.24	0.20	0.034	ppbv		0.75	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.74	0.20	0.028	ppbv		3.6	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	1.2	0.040	0.022	ppbv		7.5	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.38	0.20	0.032	ppbv		1.5	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.52	0.20	0.024	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.11	0.10	0.032	ppbv		0.66	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-05	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-28	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A484
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.1	0.50	0.077	ppbv		2.1	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.072	0.20	0.019	ppbv	J	0.31	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.7	0.20	0.051	ppbv		6.1	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.11	0.20	0.043	ppbv	J	0.54	0.98	ug/m3
76-13-1	187.4	Freon 113	1.2	0.040	0.022	ppbv		9.2	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.16	0.20	0.019	ppbv	J	0.56	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.2	0.20	0.035	ppbv		2.9	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.30	0.20	0.025	ppbv		1.0	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.24	0.20	0.039	ppbv		0.71	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	0.39	0.50	0.061	ppbv	J	0.67	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.018	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	22.9	0.040	0.025	ppbv		125	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	2.1	0.20	0.021	ppbv		10	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	1.7	0.20	0.026	ppbv		8.4	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	60.6 <sup>a</sup>	0.16	0.083	ppbv		411 <sup>a</sup>	1.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.49	0.20	0.018	ppbv		1.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	38.7	0.040	0.019	ppbv		208	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	9.8	0.040	0.021	ppbv		55	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.38	0.20	0.045	ppbv		1.7	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.50	0.20	0.023	ppbv		2.2	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.88	0.20	0.023	ppbv		3.8	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	87%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P17SSV-05	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-28	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A484
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P17SSV-06	<b>Date Sampled:</b> 09/03/09
<b>Lab Sample ID:</b> JA27118-29	<b>Date Received:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A646
<b>Method:</b> TO-15	<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22452.D	1	09/11/09	YMH	n/a	n/a	VW941
Run #2	3W12552.D	1	09/15/09	YMH	n/a	n/a	V3W513

	Initial Volume
Run #1	400 ml
Run #2	80.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	5.0	0.20	0.039	ppbv		12	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.22	0.20	0.021	ppbv		0.70	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.11	0.20	0.034	ppbv	J	0.34	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.39	0.20	0.028	ppbv		1.9	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.14	0.040	0.022	ppbv		0.88	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	0.22	0.20	0.032	ppbv		0.89	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.55	0.20	0.024	ppbv		2.7	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	1.3	0.10	0.032	ppbv		7.8	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-06	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-29	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A646
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.2	0.50	0.077	ppbv		2.3	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.21	0.20	0.019	ppbv		0.91	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.1	0.20	0.051	ppbv		4.0	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	0.77	0.040	0.022	ppbv		5.9	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	0.11	0.20	0.030	ppbv	J	0.45	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.1	0.20	0.035	ppbv		2.7	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.18	0.20	0.025	ppbv	J	0.63	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.45	0.20	0.039	ppbv		1.3	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	0.72	0.50	0.061	ppbv		1.2	0.86	ug/m3
100-42-5	104.1	Styrene	0.10	0.20	0.018	ppbv	J	0.43	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	10.2	0.040	0.025	ppbv		55.7	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.29	0.20	0.021	ppbv		1.4	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	68.1 <sup>a</sup>	0.20	0.10	ppbv		462 <sup>a</sup>	1.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.60	0.20	0.018	ppbv		2.3	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	3.2	0.040	0.019	ppbv		17	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	11.1	0.040	0.021	ppbv		62.4	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.74	0.20	0.045	ppbv		3.2	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.28	0.20	0.023	ppbv		1.2	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.0	0.20	0.023	ppbv		4.3	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%	87%	65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P17SSV-06	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-29	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A646
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P17SSV-07	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-30	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A755
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22453.D	1	09/12/09	YMH	n/a	n/a	VW941
Run #2	3W12553.D	1	09/15/09	YMH	n/a	n/a	V3W513

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	1.9	0.20	0.039	ppbv		4.5	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.44	0.20	0.021	ppbv		1.4	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	1.3	0.20	0.034	ppbv		4.0	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	2.4	0.20	0.028	ppbv		12	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.35	0.040	0.022	ppbv		2.2	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	7.4	0.20	0.032	ppbv		30	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	2.8	0.20	0.044	ppbv		11	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.53	0.20	0.024	ppbv		2.6	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.57	0.20	0.028	ppbv		2.3	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-07	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-30	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A755
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.019	ppbv		ND	0.87	ug/m3
141-78-6	88	Ethyl Acetate	2.0	0.20	0.051	ppbv		7.2	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	2.0	0.040	0.022	ppbv		15	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.10	0.20	0.019	ppbv	J	0.35	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.1	0.20	0.035	ppbv		2.7	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.12	0.20	0.025	ppbv	J	0.42	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.21	0.20	0.039	ppbv		0.62	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	0.12	0.20	0.022	ppbv	J	0.43	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.018	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	31.3	0.040	0.025	ppbv		171	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	0.20	0.021	ppbv		ND	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	286 <sup>a</sup>	0.80	0.42	ppbv		1940 <sup>a</sup>	5.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.19	0.20	0.018	ppbv	J	0.72	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	51.2 <sup>a</sup>	0.80	0.37	ppbv		275 <sup>a</sup>	4.3	ug/m3
75-69-4	137.4	Trichlorofluoromethane	10.6	0.040	0.021	ppbv		59.6	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.17	0.20	0.045	ppbv	J	0.74	0.87	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.023	ppbv		ND	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.17	0.20	0.023	ppbv	J	0.74	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%	86%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P17SSV-07	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-30	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A755
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P17SSV-08	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-31	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A633
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22454.D	1	09/12/09	YMH	n/a	n/a	VW941
Run #2	3W12554.D	1	09/15/09	YMH	n/a	n/a	V3W513

	Initial Volume
Run #1	400 ml
Run #2	50.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	4.8	0.20	0.039	ppbv		11	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.35	0.20	0.021	ppbv		1.1	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.23	0.20	0.034	ppbv		0.72	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	2.9	0.20	0.028	ppbv		14	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.37	0.040	0.022	ppbv		2.3	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	3.6	0.20	0.032	ppbv		15	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	0.72	0.20	0.044	ppbv		2.9	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.56	0.20	0.024	ppbv		2.8	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.51	0.10	0.032	ppbv		3.1	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-08	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-31	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A633
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	0.81	0.50	0.077	ppbv		1.5	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	1.2	0.20	0.019	ppbv		5.2	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.5	0.20	0.051	ppbv		5.4	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	0.83	0.040	0.022	ppbv		6.4	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.045	0.20	0.026	ppbv	J	0.18	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.025	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.27	0.20	0.039	ppbv		0.80	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	0.11	0.20	0.018	ppbv	J	0.47	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	23.2	0.040	0.025	ppbv		127	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.17	0.20	0.021	ppbv	J	0.84	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	119 <sup>a</sup>	0.32	0.17	ppbv		807 <sup>a</sup>	2.2	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.66	0.20	0.018	ppbv		2.5	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	19.6	0.040	0.019	ppbv		105	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	10.1	0.040	0.021	ppbv		56.8	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	4.5	0.20	0.045	ppbv		20	0.87	ug/m3
95-47-6	106.2	o-Xylene	1.6	0.20	0.023	ppbv		6.9	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	6.1	0.20	0.023	ppbv		26	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%	90%	65-128%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 3 of 3

Client Sample ID:	P17SSV-08	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-31	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A633
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 1 of 2

<b>Client Sample ID:</b>	P17SSV-09	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-32	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A739
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22455.D	1	09/12/09	YMH	n/a	n/a	VW941
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	ND	0.20	0.039	ppbv	ND	0.48	ug/m3	
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv	ND	0.44	ug/m3	
71-43-2	78.11	Benzene	0.41	0.20	0.021	ppbv	1.3	0.64	ug/m3	
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv	ND	0.27	ug/m3	
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv	ND	0.41	ug/m3	
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv	ND	0.78	ug/m3	
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv	ND	0.87	ug/m3	
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv	ND	1.0	ug/m3	
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv	ND	0.62	ug/m3	
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv	ND	0.92	ug/m3	
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv	ND	0.53	ug/m3	
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv	ND	0.98	ug/m3	
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv	ND	0.41	ug/m3	
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv	ND	0.63	ug/m3	
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv	ND	1.0	ug/m3	
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.022	ppbv	ND	0.25	ug/m3	
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv	ND	0.69	ug/m3	
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv	ND	0.81	ug/m3	
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv	ND	0.79	ug/m3	
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv	ND	0.31	ug/m3	
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv	ND	0.81	ug/m3	
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv	ND	0.92	ug/m3	
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv	ND	0.72	ug/m3	
75-71-8	120.9	Dichlorodifluoromethane	ND	0.20	0.024	ppbv	ND	0.99	ug/m3	
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv	ND	0.34	ug/m3	
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv	ND	0.79	ug/m3	
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv	ND	0.79	ug/m3	
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv	ND	0.91	ug/m3	
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv	ND	0.60	ug/m3	
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv	ND	0.24	ug/m3	
106-46-7	147	p-Dichlorobenzene	0.93	0.10	0.032	ppbv	5.6	0.60	ug/m3	
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv	ND	0.91	ug/m3	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-09	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-32	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A739
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.35	0.20	0.019	ppbv		1.5	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.051	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.040	0.022	ppbv		ND	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.12	0.20	0.026	ppbv	J	0.49	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.035	ppbv		ND	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.025	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.20	0.039	ppbv		ND	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.018	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.040	0.025	ppbv		ND	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.38	0.20	0.021	ppbv		1.9	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	12.7	0.040	0.021	ppbv		86.1	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.61	0.20	0.018	ppbv		2.3	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	10.1	0.040	0.021	ppbv		56.8	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.86	0.20	0.045	ppbv		3.7	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.35	0.20	0.023	ppbv		1.5	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	1.2	0.20	0.023	ppbv		5.2	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P17SSV-10	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-33	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A775
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22456.D	1	09/12/09	YMH	n/a	n/a	VW941
Run #2	3W12555.D	1	09/15/09	YMH	n/a	n/a	V3W513

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	2.7	0.20	0.039	ppbv		6.4	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.16	0.20	0.021	ppbv	J	0.51	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.50	0.20	0.028	ppbv		2.4	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.25	0.040	0.022	ppbv		1.6	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.64	0.20	0.024	ppbv		3.2	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.82	0.10	0.032	ppbv		4.9	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-10	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-33	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A775
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.5	0.50	0.077	ppbv		2.8	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	1.1	0.20	0.019	ppbv		4.8	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.5	0.20	0.051	ppbv		5.4	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	3.5	0.040	0.022	ppbv		27	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.79	0.20	0.035	ppbv		1.9	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.11	0.20	0.025	ppbv	J	0.38	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.23	0.20	0.039	ppbv		0.68	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	1.2	0.50	0.061	ppbv		2.1	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.018	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	3.2	0.040	0.025	ppbv		17	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.17	0.20	0.021	ppbv	J	0.84	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	94.5 <sup>a</sup>	0.80	0.42	ppbv		641 <sup>a</sup>	5.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	0.75	0.20	0.018	ppbv		2.8	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.079	0.040	0.019	ppbv		0.42	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	18.7	0.040	0.021	ppbv		105	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	3.9	0.20	0.045	ppbv		17	0.87	ug/m3
95-47-6	106.2	o-Xylene	1.1	0.20	0.023	ppbv		4.8	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	5.0	0.20	0.023	ppbv		22	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%	88%	65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P17SSV-10	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-33	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A775
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b> P17SSV-11	<b>Lab Sample ID:</b> JA27118-34	<b>Date Sampled:</b> 09/03/09
<b>Matrix:</b> AIR - Air	<b>Summa ID:</b> A148	<b>Date Received:</b> 09/03/09
<b>Method:</b> TO-15		<b>Percent Solids:</b> n/a
<b>Project:</b> NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22457.D	1	09/12/09	YMH	n/a	n/a	VW941
Run #2	3W12556.D	1	09/15/09	YMH	n/a	n/a	V3W513

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	75.4 <sup>a</sup>	0.80	0.16	ppbv		179 <sup>a</sup>	1.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.38	0.20	0.021	ppbv		1.2	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.22	0.20	0.034	ppbv		0.69	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.60	0.20	0.028	ppbv		2.9	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.14	0.040	0.022	ppbv		0.88	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.68	0.20	0.024	ppbv		3.4	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	2.9	0.10	0.032	ppbv		17	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-11	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-34	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A148
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	4.3	0.50	0.077	ppbv		8.1	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	38.8 <sup>a</sup>	0.80	0.077	ppbv		169 <sup>a</sup>	3.5	ug/m3
141-78-6	88	Ethyl Acetate	10.1	0.20	0.051	ppbv		36.4	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.38	0.20	0.043	ppbv		1.9	0.98	ug/m3
76-13-1	187.4	Freon 113	0.74	0.040	0.022	ppbv		5.7	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.16	0.20	0.026	ppbv	J	0.66	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	0.23	0.20	0.019	ppbv		0.81	0.70	ug/m3
591-78-6	100	2-Hexanone	0.37	0.20	0.030	ppbv		1.5	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.4	0.20	0.035	ppbv		3.4	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.49	0.20	0.025	ppbv		1.7	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.5	0.20	0.039	ppbv		10	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	0.23	0.20	0.045	ppbv		0.94	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	0.89	0.50	0.061	ppbv		1.5	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.018	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.18	0.040	0.025	ppbv		0.98	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.79	0.20	0.021	ppbv		3.9	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.20	0.20	0.026	ppbv		0.98	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.21	0.20	0.023	ppbv		0.64	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	3.6	0.040	0.021	ppbv		24	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	21.5	0.20	0.018	ppbv		81.0	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	38.5	0.040	0.019	ppbv		207	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	1.3	0.040	0.021	ppbv		7.3	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	132 <sup>a</sup>	0.80	0.18	ppbv		573 <sup>a</sup>	3.5	ug/m3
95-47-6	106.2	o-Xylene	36.5 <sup>a</sup>	0.80	0.094	ppbv		159 <sup>a</sup>	3.5	ug/m3
1330-20-7	106.2	Xylenes (total)	169 <sup>a</sup>	0.80	0.094	ppbv		734 <sup>a</sup>	3.5	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	125%	67%	65-128%
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ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

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Client Sample ID:	P17SSV-11	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-34	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A148
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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(a) Result is from Run# 2

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P17SSV-12	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-35	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A288
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22458.D	1	09/12/09	YMH	n/a	n/a	VW941
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	4.6	0.20	0.039	ppbv		11	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.19	0.20	0.021	ppbv	J	0.61	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.73	0.20	0.034	ppbv		2.3	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	0.13	0.20	0.028	ppbv	J	0.63	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.13	0.040	0.022	ppbv		0.82	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.51	0.20	0.024	ppbv		2.5	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.87	0.10	0.032	ppbv		5.2	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

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Client Sample ID:	P17SSV-12	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-35	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A288
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	1.0	0.50	0.077	ppbv		1.9	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	12.0	0.20	0.019	ppbv		52.1	0.87	ug/m3
141-78-6	88	Ethyl Acetate	1.4	0.20	0.051	ppbv		5.0	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	0.043	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	0.54	0.040	0.022	ppbv		4.1	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.026	ppbv		ND	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.51	0.20	0.035	ppbv		1.3	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.025	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.31	0.20	0.039	ppbv		0.91	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	0.061	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.018	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.53	0.040	0.025	ppbv		2.9	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.31	0.20	0.021	ppbv		1.5	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	0.026	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.023	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	25.7	0.040	0.021	ppbv		174	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	5.5	0.20	0.018	ppbv		21	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.060	0.040	0.019	ppbv		0.32	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	4.1	0.040	0.021	ppbv		23	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	39.0	0.20	0.045	ppbv		169	0.87	ug/m3
95-47-6	106.2	o-Xylene	11.7	0.20	0.023	ppbv		50.8	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	50.6	0.20	0.023	ppbv		220	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		65-128%

ND = Not detected      MDL - Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

**Report of Analysis**

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<b>Client Sample ID:</b>	P17SSV-13	<b>Date Sampled:</b>	09/03/09
<b>Lab Sample ID:</b>	JA27118-36	<b>Date Received:</b>	09/03/09
<b>Matrix:</b>	AIR - Air	<b>Summa ID:</b>	A360
<b>Method:</b>	TO-15	<b>Percent Solids:</b>	n/a
<b>Project:</b>	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W22459.D	1	09/12/09	YMH	n/a	n/a	VW941
Run #2	3W12557.D	1	09/15/09	YMH	n/a	n/a	V3W513

	Initial Volume
Run #1	400 ml
Run #2	40.0 ml

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	212 <sup>a</sup>	2.0	0.39	ppbv		504 <sup>a</sup>	4.8	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.036	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.49	0.20	0.021	ppbv		1.6	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.040	0.028	ppbv		ND	0.27	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.022	ppbv		ND	0.41	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.024	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.033	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.034	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.026	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.040	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.028	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.047	ppbv		ND	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.031	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.022	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	0.11	0.040	0.022	ppbv		0.69	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.061	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.032	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	0.044	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.040	0.021	ppbv		ND	0.31	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.036	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.029	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.063	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.54	0.20	0.024	ppbv		2.7	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.040	0.034	ppbv		ND	0.34	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.035	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.019	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.032	ppbv		ND	0.60	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.037	ppbv		ND	0.24	ug/m3
106-46-7	147	p-Dichlorobenzene	0.61	0.10	0.032	ppbv		3.7	0.60	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.016	ppbv		ND	0.91	ug/m3

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

Page 2 of 3

Client Sample ID:	P17SSV-13	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-36	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A360
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.077	ppbv		ND	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	30.4 <sup>a</sup>	2.0	0.19	ppbv		132 <sup>a</sup>	8.7	ug/m3
141-78-6	88	Ethyl Acetate	0.80	0.20	0.051	ppbv		2.9	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	0.22	0.20	0.043	ppbv		1.1	0.98	ug/m3
76-13-1	187.4	Freon 113	0.25	0.040	0.022	ppbv		1.9	0.31	ug/m3
76-14-2	170.9	Freon 114	ND	0.040	0.022	ppbv		ND	0.28	ug/m3
142-82-5	100.2	Heptane	0.12	0.20	0.026	ppbv	J	0.49	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.043	ppbv		ND	0.96	ug/m3
110-54-3	86.17	Hexane	ND	0.20	0.019	ppbv		ND	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.030	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.6	0.20	0.035	ppbv		3.9	0.49	ug/m3
75-09-2	84.94	Methylene chloride	0.15	0.20	0.025	ppbv	J	0.52	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	1.7	0.20	0.039	ppbv		5.0	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.022	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	2.8	0.50	0.061	ppbv		4.8	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.018	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.38	0.040	0.025	ppbv		2.1	0.22	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.040	0.021	ppbv		ND	0.22	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.065	ppbv		ND	0.74	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.52	0.20	0.021	ppbv		2.6	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	0.14	0.20	0.026	ppbv	J	0.69	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.020	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.29	0.20	0.023	ppbv		0.88	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	20.2	0.040	0.021	ppbv		137	0.27	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.032	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	75.4 <sup>a</sup>	2.0	0.18	ppbv		284 <sup>a</sup>	7.5	ug/m3
79-01-6	131.4	Trichloroethylene	0.069	0.040	0.019	ppbv		0.37	0.21	ug/m3
75-69-4	137.4	Trichlorofluoromethane	6.5	0.040	0.021	ppbv		37	0.22	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	0.023	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.046	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	260 <sup>a</sup>	2.0	0.45	ppbv		1130 <sup>a</sup>	8.7	ug/m3
95-47-6	106.2	o-Xylene	73.3 <sup>a</sup>	2.0	0.23	ppbv		318 <sup>a</sup>	8.7	ug/m3
1330-20-7	106.2	Xylenes (total)	333 <sup>a</sup>	2.0	0.23	ppbv		1450 <sup>a</sup>	8.7	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	152% <sup>b</sup>	57% <sup>b</sup>	65-128%
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ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

**Report of Analysis**

Page 3 of 3

Client Sample ID:	P17SSV-13	Date Sampled:	09/03/09
Lab Sample ID:	JA27118-36	Date Received:	09/03/09
Matrix:	AIR - Air	Summa ID:	A360
Method:	TO-15	Percent Solids:	n/a
Project:	NWIRP, Steel Equities, Former Grumman Plant 3, Bethpage, NY		

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
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- (a) Result is from Run# 2  
(b) Outside control limits due to matrix interference.

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ND = Not detected      MDL - Method Detection Limit  
RL = Reporting Limit  
E = Indicates value exceeds calibration range

J = Indicates an estimated value  
B = Indicates analyte found in associated method blank  
N = Indicates presumptive evidence of a compound

**APPENDIX C**  
**CONDENSATE CHAIN OF CUSTODY AND ANALYTICAL DATA PACKAGE**



TETRA TECH NUS, INC.

OU 2

## **CHAIN OF CUSTODY**

## NUMBER

27296

PAGE OF

PROJECT NO: 112G00622		FACILITY: BETHPAGE OU2		PROJECT MANAGER D. BRAYACK		PHONE NUMBER 757 461 3824		LABORATORY NAME AND CONTACT: CHEMTECH				
SAMPLERS (SIGNATURE) <i>Sj Conti</i>		CTO-066		FIELD OPERATIONS LEADER S CONTI		PHONE NUMBER 412 551 2629		ADDRESS 284 SHEFFIELD ST				
				CARRIER/WAYBILL NUMBER FED EX # 8735 5966 0760				CITY, STATE MOUNTAINSIDE 80Z 80Z NJ				
STANDARD TAT <input type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	G G G G		
DATE YEAR 0011	TIME	SAMPLE ID [ SITE 4 OU-2 ]	PRESERVATIVE USED						AQC AQC AQC AQC			
			TYPE OF ANALYSIS		VOCs (40 ml) VOCs (4 oz) PCP/RCRA METALS PCP/RCRA PCB PCP/RCB	TAN SILTY F/M SAND - MOIST	MOIST GRAY-SILTY F/M SAND COMP	TRIP BLANK BOXES 1 & 2 (IDW) BOX 2 Grab (IDW)				
3/9	0930	BP-TB-030911	TB	-	-	QC	G	2	2			
3/9	1235	OU2-IDW-BX1/2-030911	BOX 1/2	-	-	SO	C	2		1	1	
3/9	1230	OU2-IDW-BX2-030911	BOX 2	-	-	SO	G	1		1		
3/9	1315	SITE1-SVE-COND-1	SVE COND	-	-	AQ	G	2	2			CONDENSATE WATER FROM CONDENSATE WELL FURTHEST EAST
1. RELINQUISHED BY <i>Sj Conti</i>				DATE 3/9/11		TIME 1600	1. RECEIVED BY FED EX				DATE	TIME
2. RELINQUISHED BY				DATE		TIME	2. RECEIVED BY				DATE	TIME
3. RELINQUISHED BY				DATE		TIME	3. RECEIVED BY				DATE	TIME
COMMENTS												

## DISTRIBUTION

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE)      YELLOW (FIELD COPY)      PINK (FILE COPY)      4/02R  
FORM NO. TtNUS-001

**Report of Analysis**

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/09/11
Project:	Bethpage CTO-066	Date Received:	03/10/11
Client Sample ID:	SITE1-SVE-COND-1	SDG No.:	C1498
Lab Sample ID:	C1498-04	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:		uL	
GC Column:	RTX-VMS	ID :	0.18
		Final Vol:	5000 uL
		Test:	VOC-TCLVOA-10
		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG033527.D	1		03/10/11	VG031011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ	Units
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**TARGETS**

75-71-8	Dichlorodifluoromethane	0.5	U	0.2	0.5	1	ug/L
74-87-3	Chloromethane	0.5	U	0.2	0.5	1	ug/L
75-01-4	Vinyl Chloride	0.5	U	0.34	0.5	1	ug/L
74-83-9	Bromomethane	0.5	U	0.2	0.5	1	ug/L
75-00-3	Chloroethane	0.5	U	0.2	0.5	1	ug/L
75-69-4	Trichlorofluoromethane	0.5	U	0.35	0.5	1	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	U	0.45	0.5	1	ug/L
75-35-4	1,1-Dichloroethene	0.5	U	0.47	0.5	1	ug/L
67-64-1	Acetone	2.5	U	0.5	2.5	5	ug/L
75-15-0	Carbon Disulfide	0.5	U	0.2	0.5	1	ug/L
1634-04-4	Methyl tert-butyl Ether	0.5	U	0.35	0.5	1	ug/L
79-20-9	Methyl Acetate	0.5	U	0.2	0.5	1	ug/L
75-09-2	Methylene Chloride	0.5	U	0.41	0.5	1	ug/L
156-60-5	trans-1,2-Dichloroethene	0.5	U	0.41	0.5	1	ug/L
75-34-3	1,1-Dichloroethane	0.5	U	0.36	0.5	1	ug/L
110-82-7	Cyclohexane	0.5	U	0.2	0.5	1	ug/L
78-93-3	2-Butanone	2.5	U	1.3	2.5	5	ug/L
56-23-5	Carbon Tetrachloride	0.5	U	0.2	0.5	1	ug/L
156-59-2	cis-1,2-Dichloroethene	3.5		0.35	0.5	1	ug/L
67-66-3	Chloroform	0.5	U	0.34	0.5	1	ug/L
71-55-6	1,1,1-Trichloroethane	0.5	U	0.4	0.5	1	ug/L
108-87-2	Methylcyclohexane	0.5	U	0.2	0.5	1	ug/L
71-43-2	Benzene	0.5	U	0.32	0.5	1	ug/L
107-06-2	1,2-Dichloroethane	0.5	U	0.48	0.5	1	ug/L
79-01-6	Trichloroethene	7.9		0.28	0.5	1	ug/L
78-87-5	1,2-Dichloropropane	0.5	U	0.46	0.5	1	ug/L
75-27-4	Bromodichloromethane	0.5	U	0.36	0.5	1	ug/L
108-10-1	4-Methyl-2-Pentanone	2.5	U	2.1	2.5	5	ug/L
108-88-3	Toluene	0.5	U	0.37	0.5	1	ug/L
10061-02-6	t-1,3-Dichloropropene	0.5	U	0.29	0.5	1	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.5	U	0.31	0.5	1	ug/L

**Report of Analysis**

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/09/11
Project:	Bethpage CTO-066	Date Received:	03/10/11
Client Sample ID:	SITE1-SVE-COND-1	SDG No.:	C1498
Lab Sample ID:	C1498-04	Matrix:	WATER
Analytical Method:	SW8260B	% Moisture:	100
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:		uL	
GC Column:	RTX-VMS	ID :	0.18
		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG033527.D	1		03/10/11	VG031011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ	Units
79-00-5	1,1,2-Trichloroethane	0.5	U	0.38	0.5	1	ug/L
591-78-6	2-Hexanone	2.5	U	1.9	2.5	5	ug/L
124-48-1	Dibromochloromethane	0.5	U	0.2	0.5	1	ug/L
106-93-4	1,2-Dibromoethane	0.5	U	0.41	0.5	1	ug/L
127-18-4	Tetrachloroethene	3.2		0.27	0.5	1	ug/L
108-90-7	Chlorobenzene	0.5	U	0.49	0.5	1	ug/L
100-41-4	Ethyl Benzene	0.5	U	0.2	0.5	1	ug/L
179601-23-1	m/p-Xylenes	1	U	0.95	1	2	ug/L
95-47-6	o-Xylene	0.5	U	0.43	0.5	1	ug/L
100-42-5	Styrene	0.5	U	0.36	0.5	1	ug/L
75-25-2	Bromoform	0.5	U	0.47	0.5	1	ug/L
98-82-8	Isopropylbenzene	0.5	U	0.45	0.5	1	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U	0.31	0.5	1	ug/L
541-73-1	1,3-Dichlorobenzene	0.5	U	0.43	0.5	1	ug/L
106-46-7	1,4-Dichlorobenzene	0.5	U	0.32	0.5	1	ug/L
95-50-1	1,2-Dichlorobenzene	0.5	U	0.45	0.5	1	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U	0.46	0.5	1	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.5	U	0.2	0.5	1	ug/L

**SURROGATES**

17060-07-0	1,2-Dichloroethane-d4	46.4	70 - 120	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8	85 - 115	100%	SPK: 50
2037-26-5	Toluene-d8	44.6	85 - 120	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7	75 - 120	95%	SPK: 50

**INTERNAL STANDARDS**

363-72-4	Pentafluorobenzene	589307	3.89
540-36-3	1,4-Difluorobenzene	1087670	4.69
3114-55-4	Chlorobenzene-d5	963125	9.66
3855-82-1	1,4-Dichlorobenzene-d4	387998	13.37

**Report of Analysis**

Client:	Tetra Tech NUS, Inc.	Date Collected:	03/09/11			
Project:	Bethpage CTO-066	Date Received:	03/10/11			
Client Sample ID:	SITE1-SVE-COND-1	SDG No.:	C1498			
Lab Sample ID:	C1498-04	Matrix:	WATER			
Analytical Method:	SW8260B	% Moisture:	100			
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOC-TCLVOA-10	
GC Column:	RTX-VMS	ID :	0.18	Level :	LOW	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VG033527.D	1		03/10/11	VG031011

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

**APPENDIX D**  
**CONDENSATE PRODUCTION CALCULATIONS**

CLIENT: USN CLEAN	FILE No:	BY: SK	PAGE: 1 of 1
SUBJECT: Condensation Calculations Soil Vapor Extraction System NWIRP Bethpage, New York	CHECKED BY:		DATE: 7/07/2011

1. Purpose:

Estimate the potential condensation rates within the buried collection piping for the soil vapor extraction containment system based on the vapors being naturally cooled during winter operation. Use a 500 cubic feet per minute (cfm) flow rate.

2. Approach:

First calculate the water vapor content in kilograms (kg) of water vapor per kg of dry air at temperatures of 40, 50 and 60 degrees Fahrenheit. Assume that the soil gas at the extraction wells is saturated with water at either 60 degrees Fahrenheit or 50 degrees Fahrenheit. During winter months, assume that ambient temperatures cool extracted soil vapor from soil vapor extraction wells 101D to 106D to approximately 40 degrees Fahrenheit by the time it reaches the Treatment Building. Piping extends approximately 1,930 feet from soil vapor extraction well 106D to the Treatment Building, allowing the potential development of condensate. See the as-built survey of Site 1 for noted approximate distances (Figure D-1).

3. Calculate condensed mass of water:

Temperature: 60 °F  
 water vapor content\* 1.1E-02 kg/kg(dry air)

\*From psychrometric charts.

Temperature: 50 °F  
 water vapor content\* 7.6E-03 kg/kg(dry air)  
 \*From psychrometric charts.


Temperature: 40 °F  
 water vapor content\* 5.2E-03 kg/kg(dry air)  
 \*From psychrometric charts.

net condensed water fraction (60°F to 40°F) 5.8E-03 kg/kg(dry air)  
 net condensed water fraction (50°F to 40°F) 2.4E-03 kg/kg(dry air)  
 density air<sup>(1)</sup> 1.3E-03 kg/L

<sup>(1)</sup>Value approximated from Table A-7 Thermophysical Properties of Gases from *Introduction to Thermal and Fluids Engineering*, Kaminski and Jensen.

5. Calculate condensate produced per day:

soil vapor flow rate conversion	500 cfm	236 L/s
condensated water production (60°F to 40°F)	1.5E+02 L/day	4.1E+01 gal/day
condensated water production (50°F to 40°F)	6.4E+01 L/day	1.7E+01 gal/day



Notes Added by Tetra Tech NUS, June 2011.

**APPENDIX E**  
**DAR-1 ANALYSIS AND REVISED DISCHARGE LIMIT CALCULATIONS**

CLIENT: US CLEAN	FILE No:	BY: SK	PAGE: 1 of 1
SUBJECT: Calculation of Maximum Allowable Discharge Limits Site 1 SVE Containment System NWIRP Bethpage, New York	CHECKED BY:		DATE: 8/4/2011

**1. Purpose:**

Determine the maximum allowable discharge limits for Trichloroethene (TCE), Tetrachloroethene (PCE) and 1,1,1-Trichloroethane (TCA) assuming treatment of off-gas for the SVE Containment System.

**2. Approach:**

From the Contaminant Assessment Summary of the DAR-1 Model output for TCE, PCE, and TCA (see Appendix E DAR-1 output for analysis inputs), use the Actual Annual % of the Annual Guideline Concentration (AGC), a flow rate of 500 cubic feet per minute (cfm), and initial chemical emission rates in pounds per hour (lb/hour) and pounds per year (lb/year) to back calculate maximum allowable discharge limits.

**3. Calculation of Maximum Allowable Discharge Assuming Treatment:**

Chemical	Current Actual Annual % of AGC <sup>1,2</sup>	Current Chemical Emission Rate Prior to Treatment (lb/hour) <sup>2</sup>	Current Chemical Emission Rate Prior to Treatment (lb/year) <sup>2</sup>	Current Total Influent Concentration ( $\mu\text{g}/\text{m}^3$ ) <sup>2</sup>	Proposed Maximum Allowable Discharge (lb/hr) <sup>3</sup>	Proposed Maximum Allowable Discharge (lb/year) <sup>3</sup>	Proposed Maximum Allowable Discharge ( $\mu\text{g}/\text{m}^3$ ) <sup>3</sup>
TCA	0.0004	0.0009	7.5438	868	225	1,900,000	120,000,000
TCE	19.5458	0.0039	34.308	4,170	0.020	200	11,000
PCE	14.1355	0.0057	49.623	5,780	0.040	350	22,000

<sup>(1)</sup>Actual Annual % of the AGCs are from the DAR-1 Model Output, as provided in Appendix E, using August 2010 influent values.

<sup>(2)</sup>Chemical Emission Rates are August 2010 values taken from the Quarterly Operations Report Third Quarter 2010 from ECOR Federal Services.

<sup>(3)</sup>Discharge Limits are based on a flow of 500 cfm, with estimated discharge requirements calculated from the Actual Annual % of the AGCs from the DAR-1 Model Output to achieve air quality requirements. The summary of additional inputs for both model runs is provided in Appendix E. Stack height is 30 feet, and the property line was evaluated at a distance of 20 and 1,485 feet.

BETHPAGE SITE 1 SOIL VAPOR EXTRACTION CONTAINMENT SYSTEM  
 DAR-1 MODEL OUTPUT  
 INCLUDES ISCLT MODELING SUMMARY

I. Summary of Inputs for Model Run to Nearest Property Line (20 feet)

Chemical	CAS No. 00079-01-6 (TCE)	CAS No. 00127-18-4 (PCE)	CAS No. 00071-55-6 (TCA)
Emission Rate Prior to Treatment* (lb/hour)	0.0039 lb/hour	0.0057 lb/hour	0.0009 lb/hour
Emission Rate Prior to Treatment* (lb/year)	34.308 lb/year	49.623 lb/year	7.5438 lb/year
Annual Guideline Concentration (AGC)	0.50 µg/m <sup>3</sup>	1.0 µg/m <sup>3</sup>	5,000 µg/m <sup>3</sup>
Short-term Guideline Concentration (SGC)	14,000 µg/m <sup>3</sup>	1,000 µg/m <sup>3</sup>	9,000 µg/m <sup>3</sup>

HA	Height Above stack/ maximum height of plume (HA, feet)	6 feet
SH	Stack Height/Treatment Building Air Stack (SH, feet)	30 feet
D	Stack Diameter (D, inches)	10 inches
T	Stack Exit Temperature (T, degrees Fahrenheit)	60 degrees Fahrenheit
V	Stack Exit Velocity (V, ft/sec)	15 feet/second
q	Stack Exit Flow Rate [Q, Actual Cubic Feet per Minute (ACFM)]	500 cfm
Dpl	Shortest Distance from Source Building (Treatment Building) to Property Line (Dpl, feet) for point sources	20 feet
BW	Building Width (BW, feet) of Source Building (Treatment Building) for point sources	30
BL	Building Length (BL, feet) of Source Building (Treatment Building)	60
Q	Actual Hourly Emission Rate (lbs/hour) for source contaminant	Emission rate is chemical specific, see above
Qa	Actual Annual Emission Rate (lbs/year) for source contaminant	Emission rate is chemical specific, see above

\*Note that values were taken from the Quarterly Operations Report Third Quarter (February 2011) as provided by ECOR Services, using August 2010 rates of untreated influent off-gas from the SVE Containment System.

\*Note that impact values are based on continuous operation 24 hours per day, 7 days a week, 52 weeks a year, or approximately 8,760 hours of operation.

II. Contaminant Assessment Summary of TCE, PCE, and TCA:

CAS NUMBER	CONTAMINANT ASSESSMENT SUMMARY OF DAR-1 ANALYSIS					8/ 2/11 Page 1
	SHORT-TERM		CAVITY		POINT or AREA SOURCE	
	AGC ug/m3	MAXIMUM (Cav, Pt, Area) ug/m3	% OF SGC	ACTUAL ANNUAL ug/m3	POTENTIAL ANNUAL ug/m3	
00071-55-6	5000.0000000	0.0129	0.0000	0.0004	0.0004	
00079-01-6	0.50000000	0.0360	0.0000	19.4416	19.5458	
00127-18-4	1.00000000	0.7358	0.0000	14.2073	14.1355	
SUMMARY TOTALS		0.7846	0.0000	33.6493	33.6818	

III. Contaminant Impact Summary of TCE, PCE, and TCA:

CAS NUMBER	CONTAMINANT IMPACT SUMMARY OF DAR-1 ANALYSIS					8/ 2/11 Page 1
	SHORT-TERM		CAVITY		POINT or AREA SOURCE	
	AGC ug/m3	MAXIMUM (Cav, Pt, Area) ug/m3	ACTUAL ANNUAL ug/m3	POTENTIAL ANNUAL ug/m3	ACTUAL ANNUAL ug/m3	
00071-55-6	5000.0000000	1.161718130	0.000000000	0.022432568	0.021489118	
00079-01-6	0.50000000	5.034111980	0.000000000	0.097207792	0.097729082	
00127-18-4	1.00000000	7.357548710	0.000000000	0.142072931	0.141355089	

IV. Contaminant Impact Summary Step by Step Menu for TCE:

<b>NWIRP BETHPAGE</b>	<b>BETHPAGE NEW YORK</b>	<b>BETHPAGE</b>	
EMISSION POINT =	TOTAL	CAS NUMBER = 00079-01-6	SIC = 0
AGC =	0.500000000 ug/m3	SGC =	14000.000000 ug/m3
STACK: HA= 6., SH= 30., D= 10., T= 60., U= 15.00, q= 500.00			
BUILDING: Dpl= 20., BW= 30., BL= 60., zCONTROL= 0.0000			
** Reported Hourly Emission Rate (Q) is equal to	0.003900000 lbs/hour.		
** Reported Annual Emission Rate (Qa) is equal to	34.308000 lbs/year.		
<b>II.B. REFINED CAVITY IMPACT METHOD (DAR-1, APPENDIX B).</b>			
II.B.1. Shortest Distance from building to Property Line (< 20. feet) is less than or equal to the cavity length, or 3 building heights (< 72. feet). Therefore, this building will have cavity impacts (if they occur) at receptors off plant property.			
II.B.2. The largest building dimension (< 60. feet) is greater than or equal to the building height (< 24. feet). Therefore, the computer will NOT redefine the cavity length.			

II.B.3. Stack height < 30. feet > is less than cavity height < 36. feet >. Therefore, this source may contribute to the buildings cavity impact.

II.B.4.b. Redefining cavity height using the SCREEN2 model formula. Stack height < 30. feet > is less than cavity height < 32. feet >. Therefore, this source may contribute to the buildings cavity impact.

II.B.5.b. Effective stack height < 32. feet > exceeds cavity height < 32. feet >. Therefore, the plume is assumed to escape the cavity region. Computer will assume the CAVITY Annual Impact equals 0.00 ug/m<sup>3</sup>.

II.C. CAVITY Annual Impact < 0.000 ug/m<sup>3</sup> > is less than AGC < 0.500 ug/m<sup>3</sup> >.

III.A. STANDARD POINT SOURCE METHOD (DAR-1, APPENDIX B).

III.A.1.a. Plume rise should not be considered < hs/hb < 1.5 >. Computer will assume: he = hs.

III.A.2. STANDARD POINT SOURCE Actual Annual Impact is equal to 0.098 ug/m<sup>3</sup> for 8797. hours/year of operation.

III.A.3. STANDARD POINT SOURCE Potential Annual Impact is equal to 0.097 ug/m<sup>3</sup> assuming 8,760 hours/year of operation.

III.A.4. Stack height to building height ratio is less than 1.5. Computer will not reduce impacts.

III.A.5. STANDARD POINT SOURCE Short-Term Impact is calculated below using the DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.

III.D. STANDARD POINT SOURCE Actual Annual Impact < 0.098 ug/m<sup>3</sup> > is less than AGC < 0.500 ug/m<sup>3</sup> >.

III.D. STANDARD POINT SOURCE Potential Annual Impact < 0.097 ug/m<sup>3</sup> > is less than AGC < 0.500 ug/m<sup>3</sup> >.

\*\*\*\*\* Potential Annual Impact is based upon 8760 hours/year \*\*\*\*\*  
\*\*\*\*\* operation instead of reported 8797. hours/year. \*\*\*\*\*

2.0 DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.  
See "Technical Reference for the Screening Procedures of the DAR-1 Software Program, Wade/Sedefian,' 1/11/94.

2.2 LRAT = 1.25000, CAUST = 64.58878, DPL = 20.00000  
AST = 1.43478, BST = 0.13314  
LODIR = 60.00000, LORAT = 2.50000, HB = 24.00000

2.2 CAVITY Short-Term Impact, off plant property, is equal to 2.449 ug/m<sup>3</sup>. Crosswind Bld. Dimension = 30. feet.  
 II.C. CAVITY Short-Term Impact < 2.449 ug/m<sup>3</sup> > is less than SGC < 14000.000 ug/m<sup>3</sup> >.  
 2.3 Plume rise should not be considered < hs/hb < 1.5 >. Computer will assume: he = hs.  
 2.4 Maximum non-downwash GEP stack Short-Term Impact (CSTP) is equal to 1.257 ug/m<sup>3</sup>, for hs/hb = 1.25  
 2.5 Maximum downwash Short-Term Impact (CSTD) is equal to 5.176 ug/m<sup>3</sup>, for: hs/hb = 1.25 and ESH = 30. feet.  
 2.6 Adjusted maximum downwash Short-Term (CSTD) is equal to 5.034 ug/m<sup>3</sup>, for: RF = 0.97  
 III.D. Maximum non-cavity Short-Term Impact (CST): 5.034 ug/m<sup>3</sup> is less than the SGC < 14000.000 ug/m<sup>3</sup> > for the point source.  
 2.7 Maximum Short-Term cavity, point, or area source impact <SHORT-TERM MAXIMUM, <Cav.Pt.Area>> equals 5.034 ug/m<sup>3</sup> and is reported in the ANALYSIS MENU. This value is less than the SGC < 14000.000 ug/m<sup>3</sup> >.

V. Contaminant Impact Summary Step by Step Menu for PCE:

```
*****
NWIRP BETHPAGE          BETHPAGE NEW YORK          BETHPAGE
EMISSION POINT =        TOTAL      CAS NUMBER = 00127-18-4      SIC =      0
AGC =           1.0000000000 ug/m3      SGC =           1000.000000 ug/m3
STACK: HA=       6., SH=     30., D=     10., T=     60., U=     15.00, q=     500.00
BUILDING: Dpl=     20., BW=     30., BL=     60., xCONTROL=   0.0000
** Reported Hourly Emission Rate (Q) is equal to      0.005700000 lbs/hour.
** Reported Annual Emission Rate (Qa) is equal to      49.623000 lbs/year.
```

II.B. Refined CAVITY IMPACT METHOD (DAR-1, APPENDIX B).

II.B.1. Shortest Distance from building to Property Line < 20. feet > is less than or equal to the cavity length, or 3 building heights < 72. feet >. Therefore, this building will have cavity impacts (if they occur) at receptors off plant property.

II.B.2. The largest building dimension < 60. feet > is greater than or equal to the building height < 24. feet >. Therefore, the computer will NOT redefine the cavity length.

- II.B.3. Stack height < 30. feet > is less than cavity height < 36. feet >. Therefore, this source may contribute to the buildings cavity impact.
- II.B.4.b. Redefining cavity height using the SCREEN2 model formula. Stack height < 30. feet > is less than cavity height < 32. feet >. Therefore, this source may contribute to the buildings cavity impact.
- II.B.5.b. Effective stack height < 32. feet > exceeds cavity height < 32. feet >. Therefore, the plume is assumed to escape the cavity region. Computer will assume the CAVITY Annual Impact equals 0.00 ug/m<sup>3</sup>.
- II.C. CAVITY Annual Impact < 0.000 ug/m<sup>3</sup> > is less than AGC < 1.000 ug/m<sup>3</sup> >.

### III.A. STANDARD POINT SOURCE METHOD (DAR-1, APPENDIX B).

- III.A.1.a. Plume rise should not be considered < hs/hb < 1.5 >. Computer will assume: he = hs.
- III.A.2. STANDARD POINT SOURCE Actual Annual Impact is equal to 0.141 ug/m<sup>3</sup> for 8706. hours/year of operation.

- III.A.3. STANDARD POINT SOURCE Potential Annual Impact is equal to 0.142 ug/m<sup>3</sup> assuming 8,760 hours/year of operation.
- III.A.4. Stack height to building height ratio is less than 1.5. Computer will not reduce impacts.
- III.A.5. STANDARD POINT SOURCE Short-Term Impact is calculated below using the DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.
- III.D. STANDARD POINT SOURCE Actual Annual Impact < 0.141 ug/m<sup>3</sup> > is less than AGC < 1.000 ug/m<sup>3</sup> >.
- III.D. STANDARD POINT SOURCE Potential Annual Impact < 0.142 ug/m<sup>3</sup> > is less than AGC < 1.000 ug/m<sup>3</sup> >.
- \*\*\*\*\* Potential Annual Impact is based upon 8760 hours/year \*\*\*\*\*  
\*\*\*\*\* operation instead of reported 8706. hours/year. \*\*\*\*\*
- 2.0 DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.  
See "Technical Reference for the Screening Procedures of the DAR-1 Software Program, Wade/Sedefian," 1/11/94.
- 2.2 LBAT = 1.25000, CAUST = 64.58878, DPL = 20.00000  
AST = 1.43478, BST = 0.13314  
LODIR = 60.00000, LORAT = 2.50000, HB = 24.00000

2.2 CAVITY Short-Term Impact, off plant property, is equal  
 to 3.579 ug/m<sup>3</sup>. Crosswind Bld. Dimension = 30. feet.  
 II.C. CAVITY Short-Term Impact < 3.579 ug/m<sup>3</sup> > is less  
 than SGC < 1000.000 ug/m<sup>3</sup> >.  
 2.3 Plume rise should not be considered < hs/hb < 1.5 >.  
 Computer will assume: he = hs.  
 2.4 Maximum non-downwash GEP stack Short-Term Impact (CSTD) is equal  
 to 1.837 ug/m<sup>3</sup>, for hs/hb = 1.25.  
 2.5 Maximum downwash Short-Term Impact (CSTD) is equal  
 to 7.566 ug/m<sup>3</sup>, for: hs/hb = 1.25 and ESH = 30. feet.  
 2.6 Adjusted maximum downwash Short-Term (CSTD) is equal  
 to 7.358 ug/m<sup>3</sup>, for: RF = 0.97.  
 III.D. Maximum non-cavity Short-Term Impact (CST: 7.358 ug/m<sup>3</sup>) is  
 less than the SGC < 1000.000 ug/m<sup>3</sup> > for the point source.  
 2.7 Maximum Short-Term cavity, point, or area source impact  
 (SHORT-TERM MAXIMUM, (Cav,Pt,Area)) equals 7.358 ug/m<sup>3</sup>  
 and is reported in the ANALYSIS MENU. This value is less than  
 the SGC < 1000.000 ug/m<sup>3</sup> >.

#### VI. Contaminant Impact Summary Step by Step Menu for TCA:

```
*****
NWIRP BETHPAGE          BETHPAGE NEW YORK          BETHPAGE
EMISSION POINT =        TOTAL      CAS NUMBER = 00071-55-6      SIC =      0
AGC =      5000.000000000 ug/m3      SGC =      9000.000000 ug/m3
STACK: HA=      6., SH=      30., D=      10., T=      60., U=      15.00, q=      500.00
BUILDING: Dpl=      20., BW=      30., BL=      60., %CONTROL=      0.0000
** Reported Hourly Emission Rate (Q) is equal to      0.000900000 lbs/hour.
** Reported Annual Emission Rate (Qa) is equal to      7.543800 lbs/year.

II.B. Refined CAVITY IMPACT METHOD (DAR-1, APPENDIX B).

II.B.1. Shortest Distance from building to Property Line < 20. feet >  

       is less than or equal to the cavity length, or 3 building  

       heights < 72. feet >. Therefore, this building will have  

       cavity impacts (if they occur) at receptors off plant property.

II.B.2. The largest building dimension < 60. feet > is greater than or  

       equal to the building height < 24. feet >. Therefore, the  

       computer will NOT redefine the cavity length.
```

II.B.3. Stack height < 30. feet > is less than cavity height < 36. feet >. Therefore, this source may contribute to the buildings cavity impact.

II.B.4.b. Redefining cavity height using the SCREEN2 model formula. Stack height < 30. feet > is less than cavity height < 32. feet >. Therefore, this source may contribute to the buildings cavity impact.

II.B.5.b. Effective stack height < 32. feet > exceeds cavity height < 32. feet >. Therefore, the plume is assumed to escape the cavity region. Computer will assume the CAVITY Annual Impact equals 0.00 ug/m<sup>3</sup>.

III.C. CAVITY Annual Impact < 0.000 ug/m<sup>3</sup> > is less than AGC < 5000.000 ug/m<sup>3</sup> >.

III.A. STANDARD POINT SOURCE METHOD (DAR-1, APPENDIX B).

III.A.1.a. Plume rise should not be considered < hs/hb < 1.5 >. Computer will assume: he = hs.

III.A.2. STANDARD POINT SOURCE Actual Annual Impact is equal to 0.021 ug/m<sup>3</sup> for 8382. hours/year of operation.

III.A.3. STANDARD POINT SOURCE Potential Annual Impact is equal to 0.022 ug/m<sup>3</sup> assuming 8,760 hours/year of operation.

III.A.4. Stack height to building height ratio is less than 1.5. Computer will not reduce impacts.

III.A.5. STANDARD POINT SOURCE Short-Term Impact is calculated below using the DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.

III.D. STANDARD POINT SOURCE Actual Annual Impact < 0.021 ug/m<sup>3</sup> > is less than AGC < 5000.000 ug/m<sup>3</sup> >.

III.D. STANDARD POINT SOURCE Potential Annual Impact < 0.022 ug/m<sup>3</sup> > is less than AGC < 5000.000 ug/m<sup>3</sup> >.

\*\*\*\*\* Potential Annual Impact is based upon 8760 hours/year \*\*\*\*\*  
\*\*\*\*\* operation instead of reported 8382. hours/year. \*\*\*\*\*

2.0 DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.  
See "Technical Reference for the Screening Procedures of the DAR-1 Software Program, Wade/Sedefian," 1/11/94.

2.2 LRAT = 1.25000, CAUST = 64.58878, DPL = 20.00000  
AST = 1.43478, BST = 0.13314  
LODIR = 60.00000, LORAT = 2.50000, HB = 24.00000

2.2 CAVITY Short-Term Impact, off plant property, is equal to 0.565 ug/m<sup>3</sup>. Crosswind Bld. Dimension = 30. feet.  
 II.C. CAVITY Short-Term Impact < 0.565 ug/m<sup>3</sup> > is less than SGC < 9000.000 ug/m<sup>3</sup> >.  
 2.3 Plume rise should not be considered < hs/hb < 1.5 >. Computer will assume: he = hs.  
 2.4 Maximum non-downwash GEP stack Short-Term Impact <CSTP> is equal to 0.290 ug/m<sup>3</sup>, for hs/hb = 1.25  
 2.5 Maximum downwash Short-Term Impact <CSTD> is equal to 1.195 ug/m<sup>3</sup>, for: hs/hb = 1.25 and ESH = 30. feet.  
 2.6 Adjusted maximum downwash Short-Term <CSTD> is equal to 1.162 ug/m<sup>3</sup>, for: RF = 0.97  
 III.D. Maximum non-cavity Short-Term Impact <CST: 1.162 ug/m<sup>3</sup> > is less than the SGC < 9000.000 ug/m<sup>3</sup> > for the point source.  
 2.7 Maximum Short-Term cavity, point, or area source impact <SHORT-TERM MAXIMUM, <Cav,Pt,Area>> equals 1.162 ug/m<sup>3</sup> and is reported in the ANALYSIS MENU. This value is less than the SGC < 9000.000 ug/m<sup>3</sup> >.

VII. Summary of AGCs and SGCS for TCE, PCE, and TCA:

AGCs & SGCS						8/ 4/11	
CAS NUMBER	CONTAMINANT NAME	SGC ug/m <sup>3</sup>	H O M	AGC ug/m <sup>3</sup>	T O M X	CODES	Page 1
00071-55-6	METHYL CHLOROFORM	9000.00000	E	5000.000000000	E	L HI	
00079-01-6	TRICHLOROETHYLENE	14000.00000	Z	0.500000000	D M U	HB	
00127-18-4	TETRACHLOROETHYLENE	1000.00000	H	1.000000000	H M U	HI	

VIII. Contaminant Emissions Summary of TCE, PCE, and TCA:

CONTAMINANT EMISSIONS SUMMARY					8/ 4/11	
CAS NUMBER	CONTAMINANT NAME	NUM. OF EPs PER CONTAM.	EMISSIONS (lbs/hour)	EMISSIONS (lbs/year)	Page	1
00071-55-6	METHYL CHLOROFORM	1	0.0009000	7.54380		
00079-01-6	TRICHLOROETHYLENE	1	0.0039000	34.30800		
00127-18-4	TETRACHLOROETHYLENE	1	0.0057000	49.62300		
SUMMARY TOTALS		3	0.0105000	91.47480		

IX. Meter Grid Modeling Results for Maximum Annual Concentration, within 25 meters

CONCENTRATIONS × 10 <sup>-3</sup> (ug/m <sup>3</sup> ) for 00079-01-6												08/04/11 13:33:36	
AGC = 0.500000000 ug/m <sup>3</sup>													
UTME ▶	367000.	369000.	371000.	373000.	375000.	377000.	379000.	368000.	370000.	372000.	374000.	376000.	378000.
UTMN ▼	4511000.	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.04	0.02	0.01	0.01	0.01
	4510000.	0.00	0.01	0.01	0.02	0.03	0.05	0.07	0.05	0.02	0.01	0.01	0.01
	4509000.	0.00	0.00	0.01	0.01	0.03	0.07	0.13	0.07	0.03	0.02	0.01	0.01
	4508000.	0.00	0.00	0.00	0.01	0.02	0.08	0.28	0.08	0.04	0.02	0.02	0.01
	4507000.	0.00	0.00	0.01	0.01	0.01	0.03	1.12	0.21	0.08	0.04	0.03	0.02
	4506000.	0.00	0.00	0.01	0.01	0.02	0.04	0.41	0.42	0.14	0.06	0.04	0.02
	4505000.	0.00	0.00	0.01	0.01	0.03	0.06	0.12	0.10	0.08	0.06	0.04	0.03
	4504000.	0.00	0.01	0.01	0.02	0.02	0.03	0.06	0.05	0.04	0.03	0.03	0.02

TOP 100 CONTRIBUTORS TO MAXIMUM CONCENTRATION FOR 00079-01-6					08/04/11 13:33:36
@ UTME: 373000. UTMN: 4507000.		EP	Distance to Max.(m)	CONC. ug/m <sup>3</sup>	Percent of Max.
Emission Point	Facility Name (shortened)	DIR			
*****	*****	***	*****	*****	*****
TOTAL	NWIRP BETHPAGE	SSE	539.	0.112E-02	100.000
TOTAL OF ALL	1 CONTRIBUTORS			0.112E-02	100.000

X. ISCLT Model Run Information, within 25 meters

MODEL RUN INFORMATION		08/04/11 13:33:36
1. Current GRID SPACING equals 1000. meters.		
2. Maximum Concentration (flashing) equals 0.0011165002 ug/m <sup>3</sup>		
@ UTME: 373000. UTMN: 4507000.		
3. RUN FILE: TEMP2.RUN		
4. METEOROLOGICAL FILE: ALB.MET		
5. RUN MODE: URBAN		
6. HALF-LIVES: not used to account for pollutant removal from air.		
7. BLD. WAKE EFFECTS: AG-1 METHOD, All data KNOWN (hh,bw,bl,orientation)		
8. EMISSIONS: ACTUAL ANNUAL EMISSIONS		
9. SOURCES: All sources within 25. meters of		
UTME: 373275. UTMN: 4506536.		
10. CONTAMINANT CAS NUMBER(s): 00079-01-6		
11. EMISSION POINT - CONTAMINANT(s) found by computer: 1		
12. No data is being copied to DUMP file.		

BETHPAGE SITE 1 SOIL VAPOR EXTRACTION CONTAINMENT SYSTEM  
 DAR-1 MODEL OUTPUT  
 INCLUDES ISCLT MODELING SUMMARY

I. Summary of Inputs for Model Run to Nearest Resident (1,485 feet)

Chemical	CAS No. 00079-01-6 (TCE)	CAS No. 00127-18-4 (PCE)	CAS No. 00071-55-6 (TCA)
Emission Rate Prior to Treatment* (lb/hour)	0.0039 lb/hour	0.0057 lb/hour	0.0009 lb/hour
Emission Rate Prior to Treatment* (lb/year)	34.308 lb/year	49.623 lb/year	7.5438 lb/year
Annual Guideline Concentration (AGC)	0.50 µg/m <sup>3</sup>	1.0 µg/m <sup>3</sup>	5,000 µg/m <sup>3</sup>
Short-term Guideline Concentration (SGC)	14,000 µg/m <sup>3</sup>	1,000 µg/m <sup>3</sup>	9,000 µg/m <sup>3</sup>

HA	Height Above stack/ maximum height of plume (HA, feet)	6 feet
SH	Stack Height/Treatment Building Air Stack (SH, feet)	30 feet
D	Stack Diameter (D, inches)	10 inches
T	Stack Exit Temperature (T, degrees Fahrenheit)	60 degrees Fahrenheit
V	Stack Exit Velocity (V, ft/sec)	15 feet/second
q	Stack Exit Flow Rate [Q, Actual Cubic Feet per Minute (ACFM)]	500 cfm
Dpl	Shortest Distance from Source Building (Treatment Building) to Property Line (Dpl, feet) for point sources	1,485 feet (refer to Figure B-1 for this approximate distance)
BW	Building Width (BW, feet) of Source Building (Treatment Building) for point sources	30
BL	Building Length (BL, feet) of Source Building (Treatment Building)	60
Q	Actual Hourly Emission Rate (lbs/hour) for source contaminant	Emission rate is chemical specific, see above
Qa	Actual Annual Emission Rate (lbs/year) for source contaminant	Emission rate is chemical specific, see above

\*Note that values were taken from the Quarterly Operations Report Third Quarter (February 2011) as provided by ECOR Services, using August 2010 rates of untreated influent off-gas from the SVE Containment System.

\*Note that impact values are based on continuous operation 24 hours per day, 7 days a week, 52 weeks a year, or approximately 8,760 hours of operation.

II. Contaminant Assessment Summary of TCE, PCE, and TCA:

CAS NUMBER	CONTAMINANT ASSESSMENT SUMMARY OF DAR-1 ANALYSIS				8/ 4/11
	AGC ug/m <sup>3</sup>	MAXIMUM (Cav,Pt,Area) % OF SGC	SHORT-TERM	CAVITY	POINT or AREA SOURCE
			ACTUAL ANNUAL % OF AGC	POTENTIAL ANNUAL % OF AGC	ACTUAL ANNUAL % OF AGC
00071-55-6	5000.0000000	0.0129	0.0000	0.0004	0.0004
00079-01-6	0.50000000	0.0360	0.0000	19.4416	19.5458
00127-18-4	1.00000000	0.7358	0.0000	14.2073	14.1355
<b>SUMMARY TOTALS</b>		0.7846	0.0000	33.6493	33.6818

III. Contaminant Impact Summary of TCE, PCE, and TCA:

CAS NUMBER	CONTAMINANT IMPACT SUMMARY OF DAR-1 ANALYSIS				8/ 4/11
	AGC ug/m <sup>3</sup>	MAXIMUM (Cav,Pt,Area) ug/m <sup>3</sup>	SHORT-TERM	CAVITY	POINT or AREA SOURCE
			ACTUAL ANNUAL ug/m <sup>3</sup>	POTENTIAL ANNUAL ug/m <sup>3</sup>	ACTUAL ANNUAL ug/m <sup>3</sup>
00071-55-6	5000.0000000	1.161718130	0.000000000	0.022432568	0.021489118
00079-01-6	0.50000000	5.034111980	0.000000000	0.097207792	0.097729082
00127-18-4	1.00000000	7.357548710	0.000000000	0.142072931	0.141355089

IV. Contaminant Impact Summary Step by Step Menu for TCE:

NWIRP BETHPAGE	BETHPAGE, NEW YORK	BETHPAGE	
EMISSION POINT =	TOTAL	CAS NUMBER = 00079-01-6	SIC = 0
AGC =	0.500000000 ug/m <sup>3</sup>	SGC =	14000.000000 ug/m <sup>3</sup>
STACK: HA= 6., SH= 30., D= 10., T= 60., U= 15.00, q= 500.00	BUILDING: Dpl= 1485., BW= 30., BL= 60., %CONTROL= 0.0000		
** Reported Hourly Emission Rate <Q> is equal to 0.003900000 lbs/hour.			
** Reported Annual Emission Rate <Qa> is equal to 34.3080000 lbs/year.			
II.B. REFINED CAVITY IMPACT METHOD (DAR-1, APPENDIX B).			
II.B.1. Shortest Distance from building to Property Line ( 1485. feet ) exceeds the cavity length, or 3 times the building height ( 72. feet ). Therefore, this buildings cavity impacts (if they occur) are confined to on site receptors. Computer will assume the CAVITY Annual Impact equals 0.00 ug/m <sup>3</sup> .			
II.C. CAVITY Annual Impact < 0.000 ug/m <sup>3</sup> > is less than AGC (< 0.500 ug/m <sup>3</sup> ).			

**III.A. STANDARD POINT SOURCE METHOD (DAR-1, APPENDIX B).**

III.A.1.a. Plume rise should not be considered ( $hs/hb < 1.5$ ). Computer will assume:  $he = hs$ .

III.A.2. STANDARD POINT SOURCE Actual Annual Impact is equal to  $0.098 \text{ ug/m}^3$  for 8797. hours/year of operation.

III.A.3. STANDARD POINT SOURCE Potential Annual Impact is equal to  $0.097 \text{ ug/m}^3$  assuming 8,760 hours/year of operation.

III.A.4. Stack height to building height ratio is less than 1.5. Computer will not reduce impacts.

III.A.5. STANDARD POINT SOURCE Short-Term Impact is calculated below using the DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.

III.D. STANDARD POINT SOURCE Actual Annual Impact ( $0.098 \text{ ug/m}^3$ ) is less than AGC ( $0.500 \text{ ug/m}^3$ ).

III.D. STANDARD POINT SOURCE Potential Annual Impact ( $0.097 \text{ ug/m}^3$ ) is less than AGC ( $0.500 \text{ ug/m}^3$ ).

\*\*\*\* Potential Annual Impact is based upon 8760 hours/year \*\*\*\*  
\*\*\*\* operation instead of reported 8797. hours/year. \*\*\*\*

**2.0 DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.**

See "Technical Reference for the Screening Procedures of the DAR-1 Software Program, Wade/Sedefian," 1/11/94.

2.2 LRAT = 1.25000, CAUST = 64.58878, DPL = 1485.00000  
AST = 1.43478, BST = 0.13314  
LODIR = 60.00000, LORAT = 2.50000, HB = 24.00000

2.2 CAVITY Short-Term Impact is equal to  $0.00 \text{ ug/m}^3$  as the impact did not occur off plant property: ( $65.$  feet)  $<$  Dpl.

II.C. CAVITY Short-Term Impact ( $0.000 \text{ ug/m}^3$ ) is less than SGC ( $14000.000 \text{ ug/m}^3$ ).

2.3 Plume rise should not be considered ( $hs/hb < 1.5$ ). Computer will assume:  $he = hs$ .

2.4 Maximum non-downwash GEP stack Short-Term Impact (CSTP) is equal to  $1.257 \text{ ug/m}^3$ , for  $hs/hb = 1.25$

2.5 Maximum downwash Short-Term Impact (CSTD) is equal to  $5.176 \text{ ug/m}^3$ , for:  $hs/hb = 1.25$  and ESH = 30. feet.

2.6 Adjusted maximum downwash Short-Term (CSTD) is equal to  $5.034 \text{ ug/m}^3$ , for: RF = 0.97

III.D. Maximum non-cavity Short-Term Impact (CST:  $5.034 \text{ ug/m}^3$ ) is less than the SGC ( $14000.000 \text{ ug/m}^3$ ) for the point source.

2.7 Maximum Short-Term cavity, point, or area source impact (SHORT-TERM MAXIMUM, (Cav,Pt,Area)) equals  $5.034 \text{ ug/m}^3$  and is reported in the ANALYSIS MENU. This value is less than the SGC ( $14000.000 \text{ ug/m}^3$ ).

V. Contaminant Impact Summary Step by Step Menu for PCE:

```
*****  
NWIRP BETHPAGE          BETHPAGE, NEW YORK          BETHPAGE  
EMISSION POINT =        TOTAL      CAS NUMBER = 00127-18-4      SIC =     0  
    AGC =           1.000000000 ug/m3      SGC =       1000.000000 ug/m3  
    STACK: HA=      6., SH=    30., D=    10., T=      60., U=     15.00, q=     500.00  
BUILDING: Dpl=   1485., BW=    30., BL=    60., %CONTROL=   0.0000  
** Reported Hourly Emission Rate <Q> is equal to      0.005700000 lbs/hour.  
** Reported Annual Emission Rate <Qa> is equal to      49.6230000 lbs/year.  
II.B. Refined CAVITY IMPACT METHOD <DAR-1, APPENDIX B>.  
II.B.1. Shortest Distance from building to Property Line < 1485. feet >  
       exceeds the cavity length, or 3 times the building height  
< 72. feet >. Therefore, this buildings cavity impacts  
(if they occur) are confined to on site receptors. Computer  
will assume the CAVITY Annual Impact equals 0.00 ug/m3.  
II.C. CAVITY Annual Impact <      0.000 ug/m3 > is less than AGC  
<      1.000 ug/m3 >.
```

III.A. STANDARD POINT SOURCE METHOD <DAR-1, APPENDIX B>.

- III.A.1.a. Plume rise should not be considered < hs/hb < 1.5 >.  
Computer will assume: he = hs.
- III.A.2. STANDARD POINT SOURCE Actual Annual Impact is equal  
to 0.141 ug/m3 for 8706. hours/year of operation.
- III.A.3. STANDARD POINT SOURCE Potential Annual Impact is equal  
to 0.142 ug/m3 assuming 8,760 hours/year of operation.
- III.A.4. Stack height to building height ratio is less than  
1.5. Computer will not reduce impacts.
- III.A.5. STANDARD POINT SOURCE Short-Term Impact is calculated below  
using the DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.
- III.D. STANDARD POINT SOURCE Actual Annual Impact < 0.141 ug/m3 > is  
less than AGC < 1.000 ug/m3 >.
- III.D. STANDARD POINT SOURCE Potential Annual Impact < 0.142 ug/m3 >  
is less than AGC < 1.000 ug/m3 >.
- \*\*\*\*\* Potential Annual Impact is based upon 8760 hours/year  
\*\*\*\*\* operation instead of reported 8706. hours/year. \*\*\*\*\*

2.0 DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.  
 See "Technical Reference for the Screening Procedures of the  
 DAR-1 Software Program, Wade/Sedefian," 1/11/94.

2.2 LRAT = 1.25000, CAUST = 64.58878, DPL = 1485.00000  
 AST = 1.43478, BST = 0.13314  
 LODIR = 60.00000, LORAT = 2.50000, HB = 24.00000

2.2 CAVITY Short-Term Impact is equal to 0.00 ug/m<sup>3</sup> as the impact  
 did not occur off plant property: < 65. feet > < Dpl.

II.C. CAVITY Short-Term Impact < 0.000 ug/m<sup>3</sup> > is less  
 than SGC < 1000.000 ug/m<sup>3</sup> >.

2.3 Plume rise should not be considered < hs/hb < 1.5 >.  
 Computer will assume: he = hs.

2.4 Maximum non-downwash GEP stack Short-Term Impact <CSTP> is equal  
 to 1.837 ug/m<sup>3</sup>, for hs/hb = 1.25

2.5 Maximum downwash Short-Term Impact <CSTD> is equal  
 to 7.566 ug/m<sup>3</sup>, for: hs/hb = 1.25 and ESH = 30. feet.

2.6 Adjusted maximum downwash Short-Term <CSTD> is equal  
 to 7.358 ug/m<sup>3</sup>, for: RF = 0.97

III.D. Maximum non-cavity Short-Term Impact <CST: 7.358 ug/m<sup>3</sup> > is  
 less than the SGC < 1000.000 ug/m<sup>3</sup> > for the point source.

2.7 Maximum Short-Term cavity, point, or area source impact  
 <SHORT-TERM MAXIMUM, <Cav,Pt,Area>> equals 7.358 ug/m<sup>3</sup>  
 and is reported in the ANALYSIS MENU. This value is less than  
 the SGC < 1000.000 ug/m<sup>3</sup> >.

#### VI. Contaminant Impact Summary Step by Step Menu for TCA:

NWIRP BETHPAGE	BETHPAGE, NEW YORK	BETHPAGE	
EMISSION POINT =	TOTAL	CAS NUMBER = 00071-55-6	SIC = 0
AGC =	5000.000000000 ug/m <sup>3</sup>	SGC =	9000.000000 ug/m <sup>3</sup>
STACK: HA= 6., SH= 30., D= 10., I= 60., U= 15.00, q= 500.00 BUILDING: Dpl= 1485., BW= 30., BL= 60., zCONTROL= 0.0000			
** Reported Hourly Emission Rate <Q> is equal to		0.000900000 lbs/hour.	
** Reported Annual Emission Rate <Qa> is equal to		7.543800 lbs/year.	
II.B. REFINED CAVITY IMPACT METHOD <DAR-1, APPENDIX B>.			
II.B.1.	Shortest Distance from building to Property Line < 1485. feet > exceeds the cavity length, or 3 times the building height < 72. feet >. Therefore, this buildings cavity impacts <if they occur> are confined to on site receptors. Computer will assume the CAVITY Annual Impact equals 0.00 ug/m <sup>3</sup> .		
II.C.	CAVITY Annual Impact < 0.000 ug/m <sup>3</sup> > is less than AGC < 5000.000 ug/m <sup>3</sup> >.		

**III.A. STANDARD POINT SOURCE METHOD (DAR-1, APPENDIX B).**

- III.A.1.a. Plume rise should not be considered ( $hs/hb < 1.5$ ). Computer will assume:  $he = hs$ .
- III.A.2. STANDARD POINT SOURCE Actual Annual Impact is equal to  $0.021 \text{ ug/m}^3$  for 8382. hours/year of operation.
- III.A.3. STANDARD POINT SOURCE Potential Annual Impact is equal to  $0.022 \text{ ug/m}^3$  assuming 8,760 hours/year of operation.
- III.A.4. Stack height to building height ratio is less than 1.5. Computer will not reduce impacts.
- III.A.5. STANDARD POINT SOURCE Short-Term Impact is calculated below using the DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.

III.D. STANDARD POINT SOURCE Actual Annual Impact (<  $0.021 \text{ ug/m}^3$  >) is less than AGC (<  $5000.000 \text{ ug/m}^3$  >).

III.D. STANDARD POINT SOURCE Potential Annual Impact (<  $0.022 \text{ ug/m}^3$  >) is less than AGC (<  $5000.000 \text{ ug/m}^3$  >).

\*\*\*\*\* Potential Annual Impact is based upon 8760 hours/year  
\*\*\*\*\* operation instead of reported 8382. hours/year. \*\*\*\*\*

**2.0 DAR-1 SOFTWARE PROGRAM SHORT-TERM METHOD.**

See "Technical Reference for the Screening Procedures of the DAR-1 Software Program, Wade/Sedefian," 1/11/94.

2.2 LRAT = 1.25000, CAUST = 64.58878, DPL = 1485.00000  
AST = 1.43478, BST = 0.13314  
LODIR = 60.00000, LORAT = 2.50000, HB = 24.00000

2.2 CAVITY Short-Term Impact is equal to  $0.00 \text{ ug/m}^3$  as the impact did not occur off plant property: (< 65. feet >) < Dpl.

II.C. CAVITY Short-Term Impact (<  $0.000 \text{ ug/m}^3$  >) is less than SGC (<  $9000.000 \text{ ug/m}^3$  >).

2.3 Plume rise should not be considered ( $hs/hb < 1.5$ ). Computer will assume:  $he = hs$ .

2.4 Maximum non-downwash GEP stack Short-Term Impact (CSTP) is equal to  $0.290 \text{ ug/m}^3$ , for  $hs/hb = 1.25$

2.5 Maximum downwash Short-Term Impact (CSTD) is equal to  $1.195 \text{ ug/m}^3$ , for:  $hs/hb = 1.25$  and ESH = 30. feet.

2.6 Adjusted maximum downwash Short-Term (CSTD) is equal to  $1.162 \text{ ug/m}^3$ , for: RF = 0.97

III.D. Maximum non-cavity Short-Term Impact (CST):  $1.162 \text{ ug/m}^3$  > is less than the SGC (<  $9000.000 \text{ ug/m}^3$  >) for the point source.

2.7 Maximum Short-Term cavity, point, or area source impact (SHORT-TERM MAXIMUM, (Cav,Pt,Area)) equals  $1.162 \text{ ug/m}^3$  and is reported in the ANALYSIS MENU. This value is less than the SGC (<  $9000.000 \text{ ug/m}^3$  >).

VII. Summary of AGCs and SGCS for TCE, PCE, and TCA:

AGCs & SGCS						8/ 4/11
CAS NUMBER	CONTAMINANT NAME	SGC ug/m3	H O U	AGC ug/m3	H T O O W X	CODES
00071-55-6	METHYL CHLOROFORM	9000.00000	E	5000.000000000	E L H I	
00079-01-6	TRICHLOROETHYLENE	14000.00000	Z	0.500000000	D M U H B	
00127-18-4	TETRACHLOROETHYLENE	1000.00000	H	1.000000000	H M U H I	

VIII. Contaminant Emissions Summary of TCE, PCE, and TCA:

CONTAMINANT EMISSIONS SUMMARY				8/ 4/11
CAS NUMBER	CONTAMINANT NAME	NUM. OF EPs PER CONTAM.	EMISSIONS (lbs/hour)	EMISSIONS (lbs/year)
00071-55-6	METHYL CHLOROFORM	1	0.0009000	7.54380
00079-01-6	TRICHLOROETHYLENE	1	0.0039000	34.30800
00127-18-4	TETRACHLOROETHYLENE	1	0.0057000	49.62300
SUMMARY TOTALS		3	0.0105000	91.47480

IX. Meter Grid Modeling Results for Maximum Annual Concentration, within 25 meters, for TCE

CONCENTRATIONS $\times 10^{-3}$		< -3> $\text{ug/m}^3$ for 00079-01-6						08/04/11
		AGC = 0.500000000 ug/m3						14:36:53
UTME ▶	367000.	369000.	371000.	373000.	375000.	377000.	379000.	
UTMN ▼	368000.	370000.	372000.	374000.	376000.	378000.		
4511000.	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.01
4510000.	0.00	0.01	0.01	0.02	0.03	0.05	0.07	0.01
4509000.	0.00	0.00	0.01	0.01	0.03	0.07	0.13	0.01
4508000.	0.00	0.00	0.00	0.01	0.02	0.08	0.28	0.01
4507000.	0.00	0.00	0.01	0.01	0.03	1.12	0.21	0.01
4506000.	0.00	0.00	0.01	0.01	0.04	0.41	0.42	0.02
4505000.	0.00	0.00	0.01	0.01	0.03	0.06	0.12	0.01
4504000.	0.00	0.01	0.01	0.02	0.02	0.03	0.06	0.02

TOP 100 CONTRIBUTORS TO MAXIMUM CONCENTRATION FOR 00079-01-6					08/04/11 14:36:53
@ UTME: 373000.		UTMN: 4507000.			
Emission Point	Facility Name (shortened)	EP DIR	Distance to Max.(m)	CONC. ug/m3	Percent of Max.
*****	*****	***	*****	*****	*****
TOTAL	NWIRP BETHPAGE	SSE	539.	0.112E-02	100.000
TOTAL OF ALL 1 CONTRIBUTORS					0.112E-02 100.000

X. ISCLT Model Run Information, within 25 meters, for TCE

MODEL RUN INFORMATION		08/04/11 14:36:53
1.	Current GRID SPACING equals 1000. meters.	
2.	Maximum Concentration (flashing) equals 0.0011165002 ug/m3 @ UTME: 373000. UTMN: 4507000.	
3.	RUN FILE: TEMP4.RUN	
4.	METEOROLOGICAL FILE: ALB.MET	
5.	RUN MODE: URBAN	
6.	HALF-LIVES: not used to account for pollutant removal from air.	
7.	BLD. WAKE EFFECTS: AG-1 METHOD, All data KNOWN (hb,bw,bl,orientation)	
8.	EMISSIONS: ACTUAL ANNUAL EMISSIONS	
9.	SOURCES: All sources within 25. meters of UTME: 373275., UTMN: 4506536.	
10.	CONTAMINANT CAS NUMBER(s): 00079-01-6	
11.	EMISSION POINT - CONTAMINANT(s) found by computer: 1	
12.	No data is being copied to DUMP file.	